



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
We make Indiana a cleaner, healthier place to live.

Mitchell E. Daniels, Jr.
Governor

Thomas W. Easterly
Commissioner

100 North Senate Avenue
Indianapolis, Indiana 46204-2251
(317) 232-8603
(800) 451-6027
www.IN.gov/idem

Mr. Michael DeSmidt
INTAT Precision, Inc.
P. O. Box 488
Rushville, IN 46173

March 17, 2006

Re: 139-21886-00011
Significant Permit Modification to
Part 70 Permit No. 139-7531-00011

Dear Mr. DeSmidt:

INTAT Precision, Inc. was issued a permit on September 2, 2003, for the operation of a stationary gray iron foundry. A letter requesting changes to this permit was received on October 11, 2005. Pursuant to the provisions of 326 IAC 2-7-12 a significant permit modification to this permit is hereby approved as described in the attached Technical Support Document.

The modification consists of correcting the control device and venting descriptions, removing one stack test requirement, and re-evaluating the compliance determination and monitoring requirements.

All other conditions of the permit shall remain unchanged and in effect. For your convenience the entire Part 70 Operating Permit as modified has been provided.

This decision is subject to the Indiana Administrative Orders and Procedures Act - IC 4-21.5-3-5. If you have any questions on this matter, please contact Jenny Acker, OAQ, 100 North Senate Avenue, Indianapolis, Indiana, 46204-2251, or call at (800) 451-6027, and ask for Jenny Acker or extension 2-8253, or dial (317) 232-8253.

Sincerely,

Original Signed By:
Paul Dubenetzky
Assistant Commissioner
Office of Air Quality

JLA

cc: File – Rush County
U.S. EPA, Region V
Rush County Health Department
Air Compliance Section Inspector – Richard Sekula
Compliance Data Section
Administrative and Development
Technical Support and Modeling



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TO: Interested Parties / Applicant
DATE: March 17, 2006
RE: INTAT Precision, Inc. / 139-21886-00011
FROM: Paul Dubenetzky
Chief, Permits Branch
Office of Air Quality

Notice of Decision: Approval – Effective Immediately

Please be advised that on behalf of the Commissioner of the Department of Environmental Management, I have issued a decision regarding the enclosed matter. Pursuant to IC 13-17-3-4 and 326 IAC 2, this permit modification is effective immediately, unless a petition for stay of effectiveness is filed and granted, and may be revoked or modified in accordance with the provisions of IC 13-15-7-1.

If you wish to challenge this decision, IC 4-21.5-3-7 and IC 13-15-7-3 require that you file a petition for administrative review. This petition may include a request for stay of effectiveness and must be submitted to the Office Environmental Adjudication, 100 North Senate Avenue, Government Center North, Room 1049, Indianapolis, IN 46204, **within eighteen (18) days of the mailing of this notice**. The filing of a petition for administrative review is complete on the earliest of the following dates that apply to the filing:

- (1) the date the document is delivered to the Office of Environmental Adjudication (OEA);
- (2) the date of the postmark on the envelope containing the document, if the document is mailed to OEA by U.S. mail; or
- (3) The date on which the document is deposited with a private carrier, as shown by receipt issued by the carrier, if the document is sent to the OEA by private carrier.

The petition must include facts demonstrating that you are either the applicant, a person aggrieved or adversely affected by the decision or otherwise entitled to review by law. Please identify the permit, decision, or other order for which you seek review by permit number, name of the applicant, location, date of this notice and all of the following:

- (1) the name and address of the person making the request;
- (2) the interest of the person making the request;
- (3) identification of any persons represented by the person making the request;
- (4) the reasons, with particularity, for the request;
- (5) the issues, with particularity, proposed for considerations at any hearing; and
- (6) identification of the terms and conditions which, in the judgment of the person making the request, would be appropriate in the case in question to satisfy the requirements of the law governing documents of the type issued by the Commissioner.

Pursuant to 326 IAC 2-7-18(d), any person may petition the U.S. EPA to object to the issuance of a Title V operating permit or modification within sixty (60) days of the end of the forty-five (45) day EPA review period. Such an objection must be based only on issues that were raised with reasonable specificity during the public comment period, unless the petitioner demonstrates that it was impracticable to raise such issues, or if the grounds for such objection arose after the comment period.

To petition the U.S. EPA to object to the issuance of a Title V operating permit, contact:

U.S. Environmental Protection Agency
401 M Street
Washington, D.C. 20406

If you have technical questions regarding the enclosed documents, please contact the Office of Air Quality, Permits Branch at (317) 233-0178. Callers from within Indiana may call toll-free at 1-800-451-6027, ext. 3-0178.



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PART 70 OPERATING PERMIT OFFICE OF AIR QUALITY

**INTAT Precision, Inc.
2148 State Road 3 North
Rushville, Indiana 46173**

(herein known as the Permittee) is hereby authorized to operate subject to the conditions contained herein, the source described in Section A (Source Summary) of this permit.

The Permittee must comply with all conditions of this permit. Noncompliance with any provisions of this permit is grounds for enforcement action; permit termination, revocation and reissuance, or modification; or denial of a permit renewal application. Noncompliance with any provision of this permit, except any provision specifically designated as not federally enforceable, constitutes a violation of the Clean Air Act. It shall not be a defense for the Permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit. An emergency does constitute an affirmative defense in an enforcement action provided the Permittee complies with the applicable requirements set forth in Section B, Emergency Provisions.

This permit is issued in accordance with 326 IAC 2 and 40 CFR Part 70 Appendix A and contains the conditions and provisions specified in 326 IAC 2-7 as required by 42 U.S.C. 7401, et. seq. (Clean Air Act as amended by the 1990 Clean Air Act Amendments), 40 CFR Part 70.6, IC 13-15 and IC 13-17.

Operation Permit No.: T139-7531-00011	
Issued by: Original Signed by Janet G. McCabe, Assistant Commissioner Office of Air Quality	Issuance Date: September 2, 2003 Expiration Date: September 2, 2008

Significant Source Modification No. 139-17898-00011, issued on April 6, 2004
Significant Permit Modification No. 139-18320-00011, issued on April 26, 2004
Administrative Amendment No.: 139-19865-00011; issued on March 4, 2005

Significant Permit Modification No.: 139-21886-00011	
Issued by: Original Signed By: Paul Dubenetzky, Assistant Commissioner Office of Air Quality	Issuance Date: March 17, 2006 Expiration Date: September 2, 2008

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SECTION A

SOURCE SUMMARY

This permit is based on information requested by the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ). The information describing the source contained in conditions A.1 through A.3 is descriptive information and does not constitute enforceable conditions. However, the Permittee should be aware that a physical change or a change in the method of operation that may render this descriptive information obsolete or inaccurate may trigger requirements for the Permittee to obtain additional permits or seek modification of this permit pursuant to 326 IAC 2, or change other applicable requirements presented in the permit application.

A.1 General Information [326 IAC 2-7-4(c)] [326 IAC 2-7-5(15)] [326 IAC 2-7-1(22)]

The Permittee owns and operates a stationary gray iron foundry.

Responsible Official:	President
Source Address:	2148 State Road 3 North, Rushville, Indiana 46173
Mailing Address:	P.O.Box 488, Rushville, Indiana 46173
General Source Phone Number:	317-932-5323
SIC Code:	3321
County Location:	Rush
Source Location Status:	Attainment for all criteria pollutants
Source Status:	Part 70 Permit Program Major Source, under PSD Major Source, Section 112 of the Clean Air Act 1 of 28 Source Categories

A.2 Emission Units and Pollution Control Equipment Summary [326 IAC 2-7-4(c)(3)] [326 IAC 2-7-5(15)]

This stationary gray iron foundry operation consists of the following emission units and pollution control devices:

(a) Core production facilities consisting of:

- (1) Three (3) core sand bins and four (4) isocure cold box core machines, identified as P4, P5, P6 and P7, with P4, P5, and P6 constructed in 1988 and P7 constructed in 1994, each with a maximum capacity of processing 0.5 ton of core sand per hour, 8.0 pounds of resin per ton of core sand per hour and 1.12 pounds of TEA catalyst per ton of core sand, utilizing a cartridge collector for particulate control, exhausting to stack ID No. 9 and (1) scrubber (ID Scrubber #1) for control of triethylamine (TEA) emissions from core machines P4 and P5, exhausting through stack ID No.10A and (1) one scrubber (ID Scrubber #2) for control of TEA emissions from core machines P6 and P7, exhausting through stack ID No.10B.

The source voluntarily utilizes two (2) TEA scrubbers.

(b) Two (2) gray iron foundry lines, constructed in 1988, consisting of the following:

- (1) Plant 1 Melting Operations originally constructed in 1988 and to be modified in 2004, consisting of:
 - (A) One (1) indoor charge handling system for the three (3) electric induction furnaces, with a total maximum throughput capacity of 20 tons of metal per hour, consisting of three (3) units, identified as P1, P2, and P3, each with a maximum throughput capacity of 10 tons of metal per hour;

Note: The power control system at the plant limits the total maximum throughput of the charge handling system to 20 tons of metal per hour.

- (B) One (1) melting system, identified as P8, with a maximum capacity of 20 tons of metal per hour, consisting of three (3) electric induction furnaces, each with a melting capacity of 10 tons per hour, utilizing two (2) cartridge collectors for particulate control, exhausting to stack ID Nos. 3A and 3B;

Note: The maximum throughput of metal for the melting system is limited to 20 tons per hour by the maximum throughput from the charge handling system of 20 tons of metal per hour.

- (C) One (1) holding system consisting of the following equipment:
- (1) Two (2) electric holding furnaces, identified as P9, each with a holding capacity of 50 tons and a total maximum throughput capacity of 100 tons of metal per hour, utilizing two (2) cartridge collectors for particulate control, exhausting to stack ID Nos. 3A and 3B;
 - (2) Six (6) ladle heaters to be replaced in 2004, identified as P10, each with a heating capacity of 2.3 million British thermal units (MMBtu) per hour, each combusting natural gas, exhausting to stacks 12A, 12B and 12C.
- (D) One (1) inoculation system consisting of two (2) metal treatment ladles to be replaced in 2004 identified as P11, each with a maximum throughput capacity of 10 tons of metal per hour, controlled by Dust Collectors DC-3A and DC-3B for particulate control, exhausting to a common stack 3B.

- (c) Plant 1 Casting Line 1 constructed in 1988 with a capacity of 10 tons of metal and 75 tons of sand per hour, whose total capacity is further restricted by the overall melt capacity of 20 tons of metal/hour for both Lines 1 and 2, consisting of the following equipment:
- (1) One (1) sand system consisting of units identified as P32A, P33A, P34A, P35A, P36A, P37A, and P39A, controlled by baghouses DC2 and DC3A, exhausting to stacks 2 and 3A.
 - (2) One (1) pouring station, identified as P13A controlled by dust collector DC2, exhausting to stack 2.
 - (3) One (1) cooling line identified as P14A, controlled by dust collector DC1B, exhausting to stack 1A.
 - (4) One (1) shakeout unit identified as P16A, controlled by dust collectors DC1B and DC2, exhausting to stacks 1B and 2.
 - (5) Casting conveyors identified as P17A, P18A, P19A, P20A, P21A, P22A controlled by baghouse DC-6A exhausting through stack 6A.
 - (6) Shot blast processes consisting of two shot blast units identified as P26, and P27 with a total capacity of 12 tons of metal/hour, controlled by dust collector DC-8A, exhausting to stack 8A.

- (7) Grinding processes identified as P29 and P30, with a total capacity of 12 tons of metal/hour, controlled by dust collector DC-8A, exhausting to stack 8A.
- (d) Plant 1, Casting Line 2 to be constructed in 2004, with a capacity of 15 tons of metal per hour and 70 tons of sand per hour consisting of the following equipment:
- (1) One (1) sand system consisting of units identified as P32B, P33B, P34B, P35B, P36B, P37B and P39B, controlled by baghouses, BH1-6300 and BH1-6400, and exhausting to stack 1- 6300/6400 (1-6300/6400 is a single stack).
 - (2) One (1) pouring station identified as P13B controlled by dust collector DC3B, exhausting to stack 3B.
 - (3) One (1) cooling line identified as P14B, controlled by baghouse BH1-6200, exhausting to stack 1-6200.
 - (4) One (1) shakeout unit identified as P16B, controlled by baghouse BH1-6200, exhausting to stack 1-6200.
 - (5) One (1) bad heat shakeout unit controlled by dust collector DC-5, exhausting to stack 5.
 - (6) Casting conveyors identified as P17B, P18B, P19B, P20B, P21B, and P22B, controlled by baghouses DC-7, and DC-8B, exhausting inside the building, and baghouse DC-6B exhausting to stack 6B.
 - (7) One (1) Plant 1, Line 2 shot blast process consisting of three shot blast units identified as P40, P41 and P42 each with a maximum capacity of 5.3 tons of metal per hour and with a combined maximum capacity for all three of 11.3 tons of metal per hour, controlled by dust collector DC-8B, exhausting inside the building.
- (e) Plant 2, gray iron foundry line, constructed in 1997, consisting of the following:
- (1) One (1) indoor charge handling system, identified as ID # 1000A, with a maximum capacity of 10 tons of metal per hour;
 - (2) One (1) melting and pouring system, identified as ID # 1000, with a maximum capacity of 10 tons of metal per hour, utilizing a baghouse (ID # BH6100) for particulate control, exhausting to stack ID # 6100, consisting of the following equipment:
 - (A) Two (2) electric induction furnaces, each with a maximum capacity of 10 tons of metal per hour;
 - (B) One (1) electric holding furnace;
 - (C) Two (2) natural gas-fired ladle heaters, identified as ID # 6600 and 6610, each with a maximum heat input rate of 2 MMBtu per hour;

Note: The maximum throughput of metal for the melting and pouring system is limited to 10 tons per hour by the maximum throughput from the charge handling system of 10 tons of metal per hour and the power control systems at the plant.

- (3) One (1) mold/casting cooling system, identified as ID # 2000, with a maximum capacity of 10 tons of metal per hour and 70 tons of sand per hour, utilizing one (1) baghouse (ID # BH6200) for particulate control, exhausting to stack ID #s 6200A and 6200B;
- (4) One (1) casting shakeout system, identified as ID # 3000, with a maximum capacity of 10 tons of metal per hour and 70 tons of sand per hour, utilizing one (1) baghouse (ID # BH6200) for particulate control, exhausting to stack ID #s 6200A and 6200B;
- (5) One (1) sand and waste sand handling system, identified as ID # 4000, with a maximum capacity of 70 tons of sand per hour, utilizing two (2) baghouses (BH6300 and BH6400) for particulate control, exhausting to stack ID #s 6300 and 6400;
- (6) One (1) finishing operation, identified as ID # 8000, with a maximum capacity of 5.5 tons of metal per hour, consisting of trim presses, uncontrolled.

A.3 Insignificant Activities [326 IAC 2-7-1(21)] [326 IAC 2-7-4(c)][326 IAC 2-7-5(15)]

This stationary source also includes the following insignificant activities, as defined in 326 IAC 2-7-1(21):

- (a) Natural gas-fired combustion sources with heat input equal to or less than ten million (10,000,000) British thermal units (Btu) per hour;
 - (1) Two (2) boilers, identified as P40 and P41, with a maximum heat capacity of 0.9 and 1.2 million British units per hour, respectively, each combusting natural gas;
- (b) Combustion source flame safety purging on startup;
- (c) Vessels storing lubricating oils, hydraulic oils, machining oils, and machining fluids;
- (d) Refractory storage not requiring air pollution control equipment;
- (e) Application of oils, greases, lubricants or other nonvolatile materials applied as temporary protective coatings;
- (f) Degreasing operations that do not exceed 145 gallons per 12 months, except if subject to 326 IAC 20-6 (Maintenance parts cleaner using mineral spirits solvent that is 100% recycled, with a maximum throughput of 120 gallons per 12 months); [326 IAC 8-3-2]
- (g) Replacement or repair of electrostatic precipitators, bags in baghouses and filters in other air filtration equipment;
- (h) Paved and unpaved roads and parking lots with public access;
- (i) Grinding and machining operations controlled with fabric filters, scrubbers, mist collectors, wet collectors, and electrostatic precipitators with design grain loading of less than or equal to 0.03 grains per actual cubic foot and a gas flow rate less than or equal to 4000 actual cubic feet per minute, including the following: deburring; buffing; polishing; abrasive blasting; pneumatic conveying; and woodworking operations; including the following specifically regulated grinders:
 - (1) Six (6) bench grinders, identified as ID #8000, with a maximum capacity of 5.5 tons or metal per hour, utilizing fabric filters (FFA, FFH, FFC, FFD, and FFE) for control; four (4) grinders each controlled by one fabric filter, and two (2) grinders controlled by one (1) fabric filter. [326 IAC 6-3-2]
- (j) Filter or coalescer media change out;
- (k) Other activities or categories not previously identified;

- (1) Six (6) scrap bays, identified as P47 through P52, each with PM emissions of approximately 0.16 pound per hour; [326 IAC 6-3-2]
 - (2) Two (2) sand towers, identified as P55 and P56, for the gray iron foundry line constructed in 1988 (emissions are included in sand handling calculations);
 - (3) Maintenance shop operations, identified as P58 and P59, each with PM emissions of approximately 0.1 pounds per hour; [326 IAC 6-3-2]
 - (4) Two (2) collector penthouses, identified as P53 and P54, each with PM emissions of approximately 0.16 pounds per hour; [326 IAC 6-3-2]
 - (5) One (1) material separator (cartridge filter fallout collection) with PM emissions approximately 0.6 pounds per hour; [326 IAC 6-3-2]
 - (6) One (1) paint booth, identified as ID # 6601, used for machine part maintenance coating operations, with a maximum throughput rate of 90 metal units per hour, utilizing dry filters for particulate control, exhausting to stacks ID # SNP-1 and SNP-2. Potential VOC emissions are approximately 0.08 pounds per hour; [326 IAC 6-3-2]
 - (7) One (1) scrap yard.
- (l) Three (3) sand towers for the gray iron foundry line constructed in 1997, which house the sand silos, bond silos, sand mullers, and sand conveyors used with the sand handling operations; and
 - (m) Unvented trim press operations for pinching or cleaving protruding metal from castings with no emissions.

A.4 Part 70 Permit Applicability [326 IAC 2-7-2]

This stationary source is required to have a Part 70 permit by 326 IAC 2-7-2 (Applicability) because:

- (a) It is a major source, as defined in 326 IAC 2-7-1(22);
- (b) It is a source in a source category designated by the United States Environmental Protection Agency (U.S. EPA) under 40 CFR 70.3 (Part 70 - Applicability).

SECTION B

GENERAL CONDITIONS

B.1 Definitions [326 IAC 2-7-1]

Terms in this permit shall have the definition assigned to such terms in the referenced regulation. In the absence of definitions in the referenced regulation, the applicable definitions found in the statutes or regulations (IC 13-11, 326 IAC 1-2 and 326 IAC 2-7) shall prevail.

B.2 Permit Term [326 IAC 2-7-5(2)] [326 IAC 2-1.1-9.5]

This permit is issued for a fixed term of five (5) years from the issuance date of this permit, as determined in accordance with IC 4-21.5-3-5(f) and IC 13-15-5-3. Subsequent revisions, modifications, or amendments of this permit do not affect the expiration date.

B.3 Enforceability [326 IAC 2-7-7]

Unless otherwise stated, all terms and conditions in this permit, including any provisions designed to limit the source's potential to emit, are enforceable by IDEM, the United States Environmental Protection Agency (U.S. EPA) and by citizens in accordance with the Clean Air Act.

B.4 Termination of Right to Operate [326 IAC 2-7-10] [326 IAC 2-7-4(a)]

The Permittee's right to operate this source terminates with the expiration of this permit unless a timely and complete renewal application is submitted at least nine (9) months prior to the date of expiration of the source's existing permit, consistent with 326 IAC 2-7-3 and 326 IAC 2-7-4(a).

B.5 Severability [326 IAC 2-7-5(5)]

The provisions of this permit are severable; a determination that any portion of this permit is invalid shall not affect the validity of the remainder of the permit.

B.6 Property Rights or Exclusive Privilege [326 IAC 2-7-5(6)(D)]

This permit does not convey any property rights of any sort or any exclusive privilege.

B.7 Duty to Provide Information [326 IAC 2-7-5(6)(E)]

- (a) The Permittee shall furnish to IDEM, OAQ, within a reasonable time, any information that IDEM, OAQ, may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. The submittal by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34). Upon request, the Permittee shall also furnish to IDEM, OAQ, copies of records required to be kept by this permit.
- (b) For information furnished by the Permittee to IDEM, OAQ, the Permittee may include a claim of confidentiality in accordance with 326 IAC 17.1. When furnishing copies of requested records directly to U. S. EPA, the Permittee may assert a claim of confidentiality in accordance with 40 CFR 2, Subpart B.

B.8 Certification [326 IAC 2-7-4(f)] [326 IAC 2-7-6(1)] [326 IAC 2-7-5(3)(C)]

- (a) Where specifically designated by this permit or required by an applicable requirement, any application form, report, or compliance certification submitted shall contain certification by a responsible official of truth, accuracy, and completeness. This certification shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.
- (b) One (1) certification shall be included, using the attached Certification Form, with each submittal requiring certification.
- (c) A responsible official is defined at 326 IAC 2-7-1(34).

B.9 Annual Compliance Certification [326 IAC 2-7-6(5)]

- (a) The Permittee shall annually submit a compliance certification report which addresses the status of the source's compliance with the terms and conditions contained in this permit, including emission limitations, standards, or work practices. The initial certification shall cover the time period from the date of final permit issuance through December 31 of the same year. All subsequent certifications shall cover the time period from January 1 to December 31 of the previous year, and shall be submitted in letter form no later than July 1 of each year to:

Indiana Department of Environmental Management
Compliance Branch, Office of Air Quality
100 North Senate Avenue
Indianapolis, Indiana 46204-2251

and

United States Environmental Protection Agency, Region V
Air and Radiation Division, Air Enforcement Branch - Indiana (AE-17J)
77 West Jackson Boulevard
Chicago, Illinois 60604-3590

- (b) The annual compliance certification report required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ, on or before the date it is due.
- (c) The annual compliance certification report shall include the following:
- (1) The appropriate identification of each term or condition of this permit that is the basis of the certification;
 - (2) The compliance status;
 - (3) Whether compliance was continuous or intermittent;
 - (4) The methods used for determining the compliance status of the source, currently and over the reporting period consistent with 326 IAC 2-7-5(3); and
 - (5) Such other facts, as specified in Sections D of this permit, as IDEM, OAQ, may require to determine the compliance status of the source.

The submittal by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

B.10 Preventive Maintenance Plan [326 IAC 2-7-5(1),(3) and (13)] [326 IAC 2-7-6(1) and (6)] [326 IAC 1-6-3]

- (a) If required by specific condition(s) in Section D of this permit, the Permittee shall prepare and maintain Preventive Maintenance Plans (PMPs) within ninety (90) days after issuance of this permit, including the following information on each facility:
- (1) Identification of the individual(s) responsible for inspecting, maintaining, and repairing emission control devices;

- (2) A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions; and
- (3) Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.

If, due to circumstances beyond the Permittee's control, the PMPs cannot be prepared and maintained within the above time frame, the Permittee may extend the date an additional ninety (90) days provided the Permittee notifies:

Indiana Department of Environmental Management
Compliance Branch, Office of Air Quality
100 North Senate Avenue
Indianapolis, Indiana 46204-2251

The PMP extension notification does not require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

- (b) A copy of the PMPs shall be submitted to IDEM, OAQ, upon request and within a reasonable time, and shall be subject to review and approval by IDEM, OAQ, DEM, OAQ, may require the Permittee to revise its PMPs whenever lack of proper maintenance causes or is the primary contributor to an exceedance of any limitation on emissions or potential to emit. The PMP does not require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).
- (c) To the extent the Permittee is required by 40 CFR Part 60/63 to have an Operation, Maintenance, and Monitoring (OMM) Plan for a unit, such Plan is deemed to satisfy the PMP requirements of 326 IAC 1-6-3 for that unit.

B.11 Emergency Provisions [326 IAC 2-7-16]

- (a) An emergency, as defined in 326 IAC 2-7-1(12), is not an affirmative defense for an action brought for noncompliance with a federal or state health-based emission limitation.
- (b) An emergency, as defined in 326 IAC 2-7-1(12), constitutes an affirmative defense to an action brought for noncompliance with a technology-based emission limitation if the affirmative defense of an emergency is demonstrated through properly signed, contemporaneous operating logs or other relevant evidence that describe the following:
 - (1) An emergency occurred and the Permittee can, to the extent possible, identify the causes of the emergency;
 - (2) The permitted facility was at the time being properly operated;
 - (3) During the period of an emergency, the Permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards or other requirements in this permit;
 - (4) For each emergency lasting one (1) hour or more, the Permittee notified IDEM, OAQ, within four (4) daytime business hours after the beginning of the emergency, or after the emergency was discovered or reasonably have been discovered;

Telephone Number: 1-800-451-6027 (ask for Office of Air Quality,
Compliance Section), or
Telephone Number: 317-233-5674 (ask for Compliance Section)

Facsimile Number: 317-233-5967

- (5) For each emergency lasting one (1) hour or more, the Permittee submitted the attached Emergency Occurrence Report Form or its equivalent, either by mail or facsimile to:

Indiana Department of Environmental Management
Compliance Branch, Office of Air Quality
100 North Senate Avenue
Indianapolis, Indiana 46204-2251

(2) working days of the time when emission limitations were exceeded due to the emergency.

The notice fulfills the requirement of 326 IAC 2-7-5(3)(C)(ii) and must contain the following:

- (A) A description of the emergency;
- (B) Any steps taken to mitigate the emissions; and
- (C) Corrective actions taken.

The notification which shall be submitted by the Permittee does not require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

- (6) The Permittee immediately took all reasonable steps to correct the emergency.
- (c) In any enforcement proceeding, the Permittee seeking to establish the occurrence of an emergency has the burden of proof.
 - (d) This emergency provision supersedes 326 IAC 1-6 (Malfunctions). This permit condition is in addition to any emergency or upset provision contained in any applicable requirement.
 - (e) The Permittee seeking to establish the occurrence of an emergency shall make records available upon request to ensure that failure to implement a PMP did not cause or contribute to an exceedance of any limitations on emissions. However, IDEM, OAQ, may require that the Preventive Maintenance Plans required under 326 IAC 2-7-4(c)(9) be revised in response to an emergency.
 - (f) Failure to notify IDEM, OAQ, by telephone or facsimile of an emergency lasting ore than one (1) hour in accordance with (b)(4) and (5) of this condition shall onstitute a violation of 326 IAC 2-7 and any other applicable rules.
 - (g) If the emergency situation causes a deviation from a technology-based limit, the Permittee may continue to operate the affected emitting facilities during the emergency provided the Permittee immediately takes all reasonable steps to correct the emergency and minimize emissions.
 - (h) The Permittee shall include all emergencies in the Quarterly Deviation and Compliance Monitoring Report.

B.12 Permit Shield [326 IAC 2-7-15] [326 IAC 2-7-20] [326 IAC 2-7-12]

- (a) Pursuant to 326 IAC 2-7-15, the Permittee has been granted a permit shield. The permit shield provides that compliance with the conditions of this permit shall be deemed in compliance with any applicable requirements as of the date of permit issuance, provided that either the applicable requirements are included and specifically identified in this permit or the permit contains an explicit determination or concise summary of a determination that other specifically identified requirements are not applicable. The Indiana statutes from IC 13 and rules from 326 IAC, referenced in conditions in this permit, are those applicable at the time the permit was issued. The issuance or possession of this permit shall not alone constitute a defense against an alleged violation of any law, regulation or standard, except for the requirement to obtain a Part 70 permit under 326 IAC 2-7 or for applicable requirements for which a permit shield has been granted.

This permit shield does not extend to applicable requirements which are promulgated after the date of issuance of this permit unless this permit has been modified to reflect such new requirements.

- b) If, after issuance of this permit, it is determined that the permit is in nonconformance with an applicable requirement that applied to the source on the date of permit issuance, IDEM, OAQ, shall immediately take steps to reopen and revise this permit and issue a compliance order to the Permittee to ensure expeditious compliance with the applicable requirement until the permit is reissued. The permit shield shall continue in effect so long as the Permittee is in compliance with the compliance order.
- (c) No permit shield shall apply to any permit term or condition that is determined after issuance of this permit to have been based on erroneous information supplied in the permit application. Erroneous information means information that the Permittee knew to be false, or in the exercise of reasonable care should have been known to be false, at the time the information was submitted.
- (d) Nothing in 326 IAC 2-7-15 or in this permit shall alter or affect the following:
- (1) The provisions of Section 303 of the Clean Air Act (emergency orders), including the authority of the U.S. EPA under Section 303 of the Clean Air Act;
 - (2) The liability of the Permittee for any violation of applicable requirements prior to or at the time of this permit's issuance;
 - (3) The applicable requirements of the acid rain program, consistent with Section 408(a) of the Clean Air Act; and
 - (4) The ability of U.S. EPA to obtain information from the Permittee under Section 114 of the Clean Air Act.
- (e) This permit shield is not applicable to any change made under 326 IAC 2-7-(b)(2) (Sections 502(b)(10) of the Clean Air Act changes) and 326 IAC 2-7-(c)(2) (trading based on State Implementation Plan (SIP) provisions).
- (f) This permit shield is not applicable to modifications eligible for group processing until after IDEM, OAQ, has issued the modifications. [326 IAC 2-7-12(c)(7)]
- (g) This permit shield is not applicable to minor Part 70 permit modifications until after IDEM, OAQ, has issued the modification. [326 IAC 2-7-12(b)(8)]

B.13 Prior Permits Superseded [326 IAC 2-1.1-9.5]

- (a) All terms and conditions of previous permits issued pursuant to permitting programs approved into the state implementation plan have been either
- (1) incorporated as originally stated,
 - (2) revised, or
 - (3) deleted
- by this permit.
- (b) All previous registrations and permits are superseded by this permit.

B.14 Deviations from Permit Requirements and Conditions [326 IAC 2-7-5(3)(C)(ii)]

- (a) Deviations from any permit requirements (for emergencies see Section B - Emergency Provisions), the probable cause of such deviations, and any response steps or preventive measures taken shall be reported to:

Indiana Department of Environmental Management
Compliance Data Section, Office of Air Quality
100 North Senate Avenue
Indianapolis, Indiana 46204-2251

using the attached Quarterly Deviation and Compliance Monitoring Report, or its equivalent. A deviation required to be reported pursuant to an applicable requirement that exists independent of this permit, shall be reported according to the schedule stated in the applicable requirement and does not need to be included in this report.

The Quarterly Deviation and Compliance Monitoring Report does require the certification by the Aresponsible official" as defined by 326 IAC 2-7-1(34).

- (b) A deviation is an exceedance of a permit limitation or a failure to comply with a requirement of the permit.

B.15 Permit Modification, Reopening, Revocation and Reissuance, or Termination [326 IAC 2-7-5(6)(C)] [326 IAC 2-7-8(a)] [326 IAC 2-7-9]

- (a) This permit may be modified, reopened, revoked and reissued, or terminated for cause. The filing of a request by the Permittee for a Part 70 permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any condition of this permit. [326 IAC 2-7-5(6)(C)] The notification by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).
- (b) This permit shall be reopened and revised under any of the circumstances listed in IC 13-15-7-2 or if IDEM, OAQ, determines any of the following:
- (1) That this permit contains a material mistake.
 - (2) That inaccurate statements were made in establishing the emissions standards or other terms or conditions.
 - (3) That this permit must be revised or revoked to assure compliance with an applicable requirement. [326 IAC 2-7-9(a)(3)]

- (c) Proceedings by IDEM, OAQ, to reopen and revise this permit shall follow the same procedures as apply to initial permit issuance and shall affect only those parts of this permit for which cause to reopen exists. Such reopening and revision shall be made as expeditiously as practicable. [326 IAC 2-7-9(b)]
- (d) The reopening and revision of this permit, under 326 IAC 2-7-9(a), shall not be initiated before notice of such intent is provided to the Permittee by IDEM, OAQ, at least thirty (30) days in advance of the date this permit is to be reopened, except that IDEM, OAQ, may provide a shorter time period in the case of an emergency. [326 IAC 2-7-9(c)]

B.16 Permit Renewal [326 IAC 2-7-4]

- (a) The application for renewal shall be submitted using the application form or forms prescribed by IDEM, OAQ, and shall include the information specified in 326 IAC 2-7-4. Such information shall be included in the application for each emission unit at this source, except those emission units included on the trivial or insignificant activities list contained in 326 IAC 2-7-1(21) and 326 IAC 2-7-1(40). The renewal application does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

Request for renewal shall be submitted to:

Indiana Department of Environmental Management
Permits Branch, Office of Air Quality
100 North Senate Avenue
Indianapolis, Indiana 46204-2251

- (b) Timely Submittal of Permit Renewal [326 IAC 2-7-4(a)(1)(D)]
 - (1) A timely renewal application is one that is:
 - (A) Submitted at least nine (9) months prior to the date of the expiration of this permit; and
 - (B) If the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ, on or before the date it is due.
 - (2) If IDEM, OAQ, upon receiving a timely and complete permit application, fails to issue or deny the permit renewal prior to the expiration date of this permit, this existing permit shall not expire and all terms and conditions shall continue in effect, including any permit shield provided in 326 IAC 2-7-15, until the renewal permit has been issued or denied.
- (c) Right to Operate After Application for Renewal [326 IAC 2-7-3]

If the Permittee submits a timely and complete application for renewal of this permit, the source's failure to have a permit is not a violation of 326 IAC 2-7 until IDEM, OAQ, takes final action on the renewal application, except that this protection shall cease to apply if, subsequent to the completeness determination, Permittee fails to submit by the deadline specified in writing by IDEM, OAQ, any additional information identified as being needed to process the application.
- (d) United States Environmental Protection Agency Authority [326 IAC 2-7-8(e)]

If IDEM, OAQ, fails to act in a timely way on a Part 70 permit renewal, the U.S. EPA may invoke its authority under Section 505(e) of the Clean Air Act to terminate or revoke and reissue a Part 70 permit.

B.17 Permit Amendment or Modification [326 IAC 2-7-11] [326 IAC 2-7-12]

(a) Permit amendments and modifications are governed by the requirements of 326 IAC 2-7-11 or 326 IAC 2-7-12 whenever the Permittee seeks to amend or modify this permit.

(b) Any application requesting an amendment or modification of this permit shall be Submitted to:

Indiana Department of Environmental Management
Permits Branch, Office of Air Quality
100 North Senate Avenue
Indianapolis, Indiana 46204-2251

Any such application shall be certified by the "responsible official" as defined by 326 IAC 2-7-1(34).

(c) The Permittee may implement administrative amendment changes addressed in the request for an administrative amendment immediately upon submittal of the request [326 IAC 2-7-11(c)(3)].

(d) No permit amendment or modification is required for the addition, operation or removal of a nonroad engine, as defined in 40 CFR 89.2.

B.18 Permit Revision Under Economic Incentives and Other Programs [326 IAC 2-7-5(8)] [326 IAC 2-7-12 (b)(2)]

(a) No Part 70 permit revision shall be required under any approved economic incentives, marketable Part 70 permits, emissions trading, and other similar programs or processes for changes that are provided for in a Part 70 permit.

(b) Notwithstanding 326 IAC 2-7-12(b)(1) and 326 IAC 2-7-12(c)(1), minor Part 70 permit modification procedures may be used for Part 70 modifications involving the use of economic incentives, marketable Part 70 permits, emissions trading, and other similar approaches to the extent that such minor Part 70 permit modification procedures are explicitly provided for in the applicable State Implementation Plan (SIP) or in applicable requirements promulgated or approved by the U.S. EPA.

B.19 Operational Flexibility [326 IAC 2-7-20] [326 IAC 2-7-10.5]

(a) The Permittee may make any change or changes at the source that are described in 326 IAC 2-7-20(b), (c), or (e), without a prior permit revision, if each of the following conditions is met:

(1) The changes are not modifications under any provision of Title I of the Clean Air Act;

(2) Any preconstruction approval required by 326 IAC 2-7-10.5 has been obtained;

(3) The changes do not result in emissions which exceed the limitations provided in this permit (whether expressed herein as a rate of emissions or in terms of total emissions);

(4) The Permittee notifies the:

Indiana Department of Environmental Management
Permits Branch, Office of Air Quality
100 North Senate Avenue
Indianapolis, Indiana 46204-2251

and

United States Environmental Protection Agency, Region V
Air and Radiation Division, Regulation Development Branch - Indiana (AR-18J)
77 West Jackson Boulevard
Chicago, Illinois 60604-3590

in advance of the change by written notification at least ten (10) days in advance of the proposed change. The Permittee shall attach every such notice to the Permittee's copy of this permit; and

- (5) The Permittee maintains records, on-site on a rolling five (5) year basis, which document all such changes and emission trades that are subject to 326 IAC 2-7-20(b), (c), or (e). The Permittee shall make such records available, upon reasonable request, for public review.

Such records shall consist of all information required to be submitted to IDEM, OAQ, in the notices specified in 326 IAC 2-7-20(b)(1), (c)(1), and (e)(2).

- (b) The Permittee may make Section 502(b)(10) of the Clean Air Act changes (this term is defined at 326 IAC 2-7-1(36)) without a permit revision, subject to the constraint of 326 IAC 2-7-20(a). For each such Section 502(b)(10) of the Clean Act change, the required written notification shall include the following:
 - (1) A brief description of the change within the source;
 - (2) The date on which the change will occur;
 - (3) Any change in emissions; and
 - (4) Any permit term or condition that is no longer applicable as a result of the change.

The notification which shall be submitted is not considered an application form, report or compliance certification. Therefore, the notification by the Permittee does not require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

- (c) Emission Trades [326 IAC 2-7-20(c)]
The Permittee may trade emission increases and decreases at the source, where the applicable SIP provides for such emission trades without requiring a permit revision, subject to the constraints of Section (a) of this condition and those in 326 IAC 2-7-20(c).
- (d) Alternative Operating Scenarios [326 IAC 2-7-20(d)]
The Permittee may make changes at the source within the range of alternative operating scenarios that are described in the terms and conditions of this permit in accordance with 326 IAC 2-7-5(9). No prior notification of IDEM, OAQ, or U.S. EPA is required.

B.20 Source Modification Requirement [326 IAC 2-7-10.5]

A modification, construction, or reconstruction is governed by the requirements of 326 IAC 2 and 326 IAC 2-7-10.5.

B.21 Inspection and Entry [326 IAC 2-7-6] [IC 13-14-2-2][IC 13-30-3-1]

Upon presentation of proper identification cards, credentials, and other documents as may be required by law, and subject to the Permittee's right under all applicable laws and regulations to assert that the information collected by the agency is confidential and entitled to be treated as such, the Permittee shall allow IDEM, OAQ, U.S. EPA, or an authorized representative to perform the following:

- (a) Enter upon the Permittee's premises where a Part 70 source is located, or emissions related activity is conducted, or where records must be kept under the conditions of this permit;
- (b) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, have access to and copy any records that must be kept under the conditions of this permit;
- (c) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, inspect any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit;
- (d) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, sample or monitor substances or parameters for the purpose of assuring compliance with this permit or applicable requirements; and
- (e) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, utilize any photographic, recording, testing, monitoring, or other equipment for the purpose of assuring compliance with this permit or applicable requirements.

B.22 Transfer of Ownership or Operational Control [326 IAC 2-7-11]

- (a) The Permittee must comply with the requirements of 326 IAC 2-7-11 whenever the Permittee seeks to change the ownership or operational control of the source and no other change in the permit is necessary.
- (b) Any application requesting a change in the ownership or operational control of the source shall contain a written agreement containing a specific date for transfer of permit responsibility, coverage and liability between the current and new Permittee. The application shall be submitted to:

Indiana Department of Environmental Management
Permits Branch, Office of Air Quality
100 North Senate Avenue
Indianapolis, Indiana 46204-2251

The application which shall be submitted by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

- (c) The Permittee may implement administrative amendment changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-7-11(c)(3)]

B.23 Annual Fee Payment [326 IAC 2-7-19] [326 IAC 2-7-5(7)][326 IAC 2-1.1-7]

- (a) The Permittee shall pay annual fees to IDEM, OAQ, within thirty (30) calendar days of receipt of a billing. Pursuant to 326 IAC 2-7-19(b), if the Permittee does not receive a bill from IDEM, OAQ, the applicable fee is due April 1 of each year.

- (b) Except as provided in 326 IAC 2-7-19(e), failure to pay may result in administrative enforcement action or revocation of this permit.
- (c) The Permittee may call the following telephone numbers: 1-800-451-6027 or 317-233-4230 (ask for OAQ, Billing, Licensing and Training Section), to determine the appropriate permit fee.

B.24 Credible Evidence [326 IAC 2-7-5(3)][326 IAC 2-7-6][62 FR 8314] [326 IAC 1-1-6]

For the purpose of submitting compliance certifications or establishing whether or not the Permittee has violated or is in violation of any condition of this permit, nothing in this permit shall preclude the use, including the exclusive use, of any credible evidence or information relevant to whether the Permittee would have been in compliance with the condition of this permit if the appropriate performance or compliance test or procedure had been performed.

SECTION C

SOURCE OPERATION CONDITIONS

Entire Source

Emission Limitations and Standards [326 IAC 2-7-5(1)]

C.1 Particulate Emission Limitations For Processes with Process Weight Rates Less Than One Hundred (100) pounds per hour [326 IAC 6-3-2]

Pursuant to 326 IAC 6-3-2(e)(2), particulate emissions from any process not exempt under 326 IAC 6-3-1(b) or (c) which has a maximum process weight rate less than 100 pounds per hour and the methods in 326 IAC 6-3-2(b) through (d) do not apply shall not exceed 0.551 pounds per hour.

C.2 Opacity [326 IAC 5-1]

Pursuant to 326 IAC 5-1-2 (Opacity Limitations), except as provided in 326 IAC 5-1-3 (Temporary Alternative Opacity Limitations), opacity shall meet the following, unless otherwise stated in this permit:

- (a) Opacity shall not exceed an average of forty percent (40%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.
- (b) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of fifteen (15) minutes (sixty (60) readings as measured according to 40 CFR 60, Appendix A, Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor) in a six (6) hour period.

C.3 Open Burning [326 IAC 4-1] [IC 13-17-9]

The Permittee shall not open burn any material except as provided in 326 IAC 4-1-3, 326 IAC 4-1-4 or 326 IAC 4-1-6. The previous sentence notwithstanding, the Permittee may open burn in accordance with an open burning approval issued by the Commissioner under 326 IAC 4-1-4.1. 326 IAC 4-1-3 (a)(2)(A) and (B) are not federally enforceable.

C.4 Incineration [326 IAC 4-2] [326 IAC 9-1-2]

The Permittee shall not operate an incinerator or incinerate any waste or refuse except as provided in 326 IAC 4-2 and 326 IAC 9-1-2. 326 IAC 9-1-2 is not federally enforceable.

C.5 Fugitive Dust Emissions [326 IAC 6-4]

The Permittee shall not allow fugitive dust to escape beyond the property line or boundaries of the property, right-of-way, or easement on which the source is located, in a manner that would violate 326 IAC 6-4 (Fugitive Dust Emissions). 326 IAC 6-4-2(4) is not federally enforceable.

C.6 Stack Height [326 IAC 1-7]

The Permittee shall comply with the applicable provisions of 326 IAC 1-7 (Stack Height Provisions), for all exhaust stacks through which a potential (before controls) of twenty-five (25) tons per year or more of particulate matter or sulfur dioxide is emitted. The provisions of 326 IAC 1-7-2, 326 IAC 1-7-3(c) and (d), 326 IAC 1-7-4(d), (e), and (f), and 326 IAC 1-7-5(d) are not federally enforceable.

C.7 Asbestos Abatement Projects [326 IAC 14-10] [326 IAC 18] [40 CFR 61, Subpart M]

- (a) Notification requirements apply to each owner or operator. If the combined amount of regulated asbestos containing material (RACM) to be stripped, removed or disturbed is at least 260 linear feet on pipes or 160 square feet on other facility components, or at least thirty-five (35) cubic feet on all facility components, then the notification requirements of

326 IAC 14-10-3 are mandatory. All demolition projects require notification whether or not asbestos is present.

- (b) The Permittee shall ensure that a written notification is sent on a form provided by the Commissioner at least ten (10) working days before asbestos stripping or removal work or before demolition begins, per 326 IAC 14-10-3, and shall update such notice as necessary, including, but not limited to the following:
 - (1) When the amount of affected asbestos containing material increases or decreases by at least twenty percent (20%); or
 - (2) If there is a change in the following:
 - (A) Asbestos removal or demolition start date;
 - (B) Removal or demolition contractor; or
 - (C) Waste disposal site.
- (c) The Permittee shall ensure that the notice is postmarked or delivered according to the guidelines set forth in 326 IAC 14-10-3(2).
- (d) The notice to be submitted shall include the information enumerated in 326 IAC 14-10-3(3).

All required notifications shall be submitted to:

Indiana Department of Environmental Management
Asbestos Section, Office of Air Quality
100 North Senate Avenue
Indianapolis, Indiana 46204-2251

The notice shall include a signed certification from the owner or operator that the information provided in this notification is correct and that only Indiana licensed workers and project supervisors will be used to implement the asbestos removal project. The notifications do not require a certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

- (e) **Procedures for Asbestos Emission Control**
The Permittee shall comply with the applicable emission control procedures in 326 IAC 14-10-4 and 40 CFR 61.145(c). Per 326 IAC 14-10-1, emission control requirements are applicable for any removal or disturbance of RACM greater than three (3) linear feet on pipes or three (3) square feet on any other facility components or a total of at least 0.75 cubic feet on all facility components.
- (f) **Demolition and renovation**
The Permittee shall thoroughly inspect the affected facility or part of the facility where the demolition or renovation will occur for the presence of asbestos pursuant to 40 CFR 61.145(a).
- (g) **Indiana Accredited Asbestos Inspector**
The Permittee shall comply with 326 IAC 14-10-1(a) that requires the owner or operator, prior to a renovation/demolition, to use an Indiana Accredited Asbestos Inspector to

thoroughly inspect the affected portion of the facility for the presence of asbestos. The requirement to use an Indiana Accredited Asbestos inspector is not federally enforceable.

Testing Requirements [326 IAC 2-7-6(1)]

C.8 Performance Testing [326 IAC 3-6]

- (a) All testing shall be performed according to the provisions of 326 IAC 3-6 (Source Sampling Procedures), except as provided elsewhere in this permit, utilizing any applicable procedures and analysis methods specified in 40 CFR 51, 40 CFR 60, 40 CFR 61, 40 CFR 63, 40 CFR 75, or other procedures approved by IDEM, OAQ.

A test protocol, except as provided elsewhere in this permit, shall be submitted to:

Indiana Department of Environmental Management
Compliance Data Section, Office of Air Quality
100 North Senate Avenue
Indianapolis, Indiana 46204-2251

no later than thirty-five (35) days prior to the intended test date. The protocol submitted by the Permittee does not require certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

- (b) The Permittee shall notify IDEM, OAQ of the actual test date at least fourteen (14) days prior to the actual test date. The notification submitted by the Permittee does not require certification by the "responsible official" as defined by 326 IAC 2-7-1(34).
- (c) Pursuant to 326 IAC 3-6-4(b), all test reports must be received by IDEM, OAQ not later than forty-five (45) days after the completion of the testing. An extension may be granted by IDEM, OAQ, if the source submits to IDEM, OAQ, a reasonable written explanation not later than five (5) days prior to the end of the initial forty-five (45) day period.

Compliance Requirements [326 IAC 2-1.1-11]

C.9 Compliance Requirements [326 IAC 2-1.1-11]

The commissioner may require stack testing, monitoring, or reporting at any time to assure compliance with all applicable requirements by issuing an order under 326 IAC 2-1.1-11. Any monitoring or testing shall be performed in accordance with 326 IAC 3 or other methods approved by the commissioner or the U. S. EPA.

Compliance Monitoring Requirements [326 IAC 2-7-5(1)] [326 IAC 2-7-6(1)]

C.10 Compliance Monitoring [326 IAC 2-7-5(3)] [326 IAC 2-7-6(1)]

Unless otherwise specified in this permit, all monitoring and record keeping requirements not already legally required shall be implemented within ninety (90) days of permit issuance. If required by Section D, the Permittee shall be responsible for installing any necessary equipment and initiating any required monitoring related to that equipment. If due to circumstances beyond its control, that equipment cannot be installed and operated within ninety (90) days, the Permittee may extend the compliance schedule related to the equipment for an additional ninety (90) days provided the Permittee notifies:

Indiana Department of Environmental Management
Compliance Branch, Office of Air Quality
100 North Senate Avenue
Indianapolis, Indiana 46204-2251

in writing, prior to the end of the initial ninety (90) day compliance schedule, with full justification of the reasons for the inability to meet this date.

The notification which shall be submitted by the Permittee does require the certification by the Aresponsible official" as defined by 326 IAC 2-7-1(34).

Unless otherwise specified in the approval for the new emission unit(s), compliance monitoring for new emission units or emission units added through a source modification shall be implemented when operation begins.

C.11 Monitoring Methods [326 IAC 3] [40 CFR 60] [40 CFR 63]

Any monitoring or testing required by Section D of this permit shall be performed according to the provisions of 326 IAC 3, 40 CFR 60, Appendix A, 40 CFR 60 Appendix B, 40 CFR 63, or other approved methods as specified in this permit.

C.12 Instrument Specifications [326 IAC 2-1.1-11] [326 IAC 2-7-5(3)] [326 IAC 2-7-6(1)]

- (a) When required by any condition of this permit, an analog instrument used to measure a parameter related to the operation of an air pollution control device shall have a scale such that the expected maximum reading for the normal range shall be no less than twenty percent (20%) of full scale.
- (b) The Permittee may request that the IDEM, OAQ approve the use of an instrument that does not meet the above specifications provided the Permittee can demonstrate that an alternative instrument specification will adequately ensure compliance with permit conditions requiring the measurement of the parameters.

Corrective Actions and Response Steps [326 IAC 2-7-5] [326 IAC 2-7-6]

C.13 Emergency Reduction Plans [326 IAC 1-5-2] [326 IAC 1-5-3]

Pursuant to 326 IAC 1-5-2 (Emergency Reduction Plans; Submission):

- (a) The Permittee prepared and submitted written emergency reduction plans (ERPs) consistent with safe operating procedures on December 9, 1996.
- (b) Upon direct notification by IDEM, OAQ, that a specific air pollution episode level is in effect, the Permittee shall immediately put into effect the actions stipulated in the approved ERP for the appropriate episode level. [326 IAC 1-5-3]

C.14 Risk Management Plan [326 IAC 2-7-5(12)] [40 CFR 68]

If a regulated substance, as defined in 40 CFR 68, is present at a source in more than a threshold quantity, the source must comply with the applicable requirements of 40 CFR 68.

C.15 Response to Excursions or Exceedances [326 IAC 2-7-5] [326 IAC 2-7-6]

- (a) Upon detecting an excursion or exceedance, the Permittee shall restore operation of the emissions unit (including any control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions.
- (b) The response shall include minimizing the period of any startup, shutdown or malfunction and taking any necessary corrective actions to restore normal operation and prevent the likely recurrence of the cause of an excursion or exceedance (other than those caused by excused startup or shutdown conditions). Corrective actions may include, but are not limited to, the following:

- (1) initial inspection and evaluation;
 - (2) recording that operations returned to normal without operator action (such as through response by a computerized distribution control system); or
 - (3) any necessary follow-up actions to return operation to within the indicator range, designated condition, or below the applicable emission limitation or standard, as applicable.
- (c) A determination of whether the Permittee has used acceptable procedures in response to an excursion or exceedance will be based on information available, which may include, but is not limited to, the following:
- (1) monitoring results;
 - (2) review of operation and maintenance procedures and records;
 - (3) inspection of the control device, associated capture system, and the process.
- (d) Failure to take reasonable response steps shall be considered a deviation from the permit.
- (e) The Permittee shall maintain the following records:
- (1) monitoring data;
 - (2) monitor performance data, if applicable; and
 - (3) corrective actions taken.

C.16 Actions Related to Noncompliance Demonstrated by a Stack Test [326 IAC 2-7-5]
[326 IAC 2-7-6]

- (a) When the results of a stack test performed in conformance with Section C - Performance Testing, of this permit exceed the level specified in any condition of this permit, the Permittee shall take appropriate response actions. The Permittee shall submit a description of these response actions to IDEM, OAQ, within thirty (30) days of receipt of the test results. The Permittee shall take appropriate action to minimize excess emissions from the affected facility while the response actions are being implemented.
- (b) A retest to demonstrate compliance shall be performed within one hundred twenty (120) days of receipt of the original test results. Should the Permittee demonstrate to IDEM, OAQ that retesting in one-hundred and twenty (120) days is not practicable, IDEM, OAQ may extend the retesting deadline.
- (c) IDEM, OAQ reserves the authority to take any actions allowed under law in response to noncompliant stack tests.

The response action documents submitted pursuant to this condition do require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

Record Keeping and Reporting Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19]

C.17 Emission Statement [326 IAC 2-7-5(3)(C)(iii)] [326 IAC 2-7-5(7)] [326 IAC 2-7-19(c)] [326 IAC 2-6]

- (a) Pursuant to 326 IAC 2 6 3(b)(2), starting in 2005 and every three (3) years thereafter, the Permittee shall submit by July 1 an emission statement covering the previous calendar year. The emission statement shall contain, at a minimum, the information specified in 326 IAC 2 6 4(c) and shall meet the following requirements:
- (1) Indicate estimated actual emissions of all pollutants listed in 326 IAC 2 6 4(a);
 - (2) Indicate estimated actual emissions of regulated pollutants as defined by 326 IAC 2 7 1(32) ("Regulated pollutant which is used only for purposes of Section 19 of this rule") from the source, for purposes of Part 70 fee assessment.

The statement must be submitted to:

Indiana Department of Environmental Management
Technical Support and Modeling Section, Office of Air Quality
100 North Senate Avenue
Indianapolis, Indiana 46204-2251

The emission statement does require the certification by the "responsible official" as defined by 326 IAC 2 7 1(34).

- (b) The emission statement required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ, on or before the date it is due.

C.18 General Record Keeping Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-6] [326 IAC 2-2]

- (a) Records of all required monitoring data, reports and support information required by this permit shall be retained for a period of at least five (5) years from the date of monitoring sample, measurement, report, or application. These records shall be physically present or electronically accessible at the source location for a minimum of three (3) years. The records may be stored elsewhere for the remaining two (2) years as long as they are available upon request. If the Commissioner makes a request for records to the Permittee, the Permittee shall furnish the records to the Commissioner within a reasonable time.
- (b) Unless otherwise specified in this permit, all record keeping requirements not already legally required shall be implemented within ninety (90) days of permit issuance.
- (c) If there is a reasonable possibility that a "project" (as defined in 326 IAC 2-2-1 (qq)) at an existing emissions unit, other than projects at a Clean Unit, which is not part of a "major modification" (as defined in 326 IAC 2-2-1 (ee)) may result in significant emissions increase and the Permittee elects to utilize the "projected actual emissions" (as defined in 326 IAC 2-2-1 (rr)), the Permittee shall comply with following:
- (1) Before beginning actual construction of the "project" (as defined in 326 IAC 2-2-1 (qq)) at an existing emissions unit, document and maintain the following records:
 - (A) A description of the project.
 - (B) Identification of any emissions unit whose emissions of a regulated new source review pollutant could be affected by the project.

- (C) A description of the applicability test used to determine that the project is not a major modification for any regulated NSR pollutant, including:
 - (i) Baseline actual emissions;
 - (ii) Projected actual emissions;
 - (iii) Amount of emissions excluded under section 326 IAC 2-2-1(rr)(2)(A)(iii); and
 - (iv) An explanation for why the amount was excluded, and any netting calculations, if applicable.
- (2) Monitor the emissions of any regulated NSR pollutant that could increase as a result of the project and that is emitted by any existing emissions unit identified in (1)(B) above; and
- (3) Calculate and maintain a record of the annual emissions, in tons per year on a calendar year basis, for a period of five (5) years following resumption of regular operations after the change, or for a period of ten (10) years following resumption of regular operations after the change if the project increases the design capacity of or the potential to emit that regulated NSR pollutant at the emissions unit.

C.19 General Reporting Requirements [326 IAC 2-7-5(3)(C)] [326 IAC 2-1.1-11]

- (a) The source shall submit the attached Quarterly Deviation and Compliance Monitoring Report or its equivalent. Any deviation from permit requirements, the date(s) of each deviation, the cause of the deviation, and the response steps taken must be reported. This report shall be submitted within thirty (30) days of the end of the reporting period. The Quarterly Deviation and Compliance Monitoring Report shall include the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).
- (b) The report required in (a) of this condition and reports required by conditions in Section D of this permit shall be submitted to:

Indiana Department of Environmental Management
Compliance Data Section, Office of Air Quality
100 North Senate Avenue
Indianapolis, Indiana 46204-2251
- (c) Unless otherwise specified in this permit, any notice, report, or other submission required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ, on or before the date it is due.
- (d) Unless otherwise specified in this permit, all reports required in Section D of this permit shall be submitted within thirty (30) days of the end of the reporting period. All reports do require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).
- (e) Reporting periods are based on calendar years.

Stratospheric Ozone Protection

C.20 Compliance with 40 CFR 82 and 326 IAC 22-1

Pursuant to 40 CFR 82 (Protection of Stratospheric Ozone), Subpart F, except as provided for motor vehicle air conditioners in Subpart B, the Permittee shall comply with the standards for recycling and emissions reduction:

- (a) Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to 40 CFR 82.156.
- (b) Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to 40 CFR 82.158.
- (c) Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to 40 CFR 82.161.

SECTION D.1

FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(15)]:

(a) Core production facilities consisting of:

- (1) Three (3) core sand bins and four (4) isocure cold box core machines, identified as P4, P5, P6 and P7, with P4, P5, and P6 constructed in 1988 and P7 constructed in 1994, each with a maximum capacity of processing 0.5 ton of core sand per hour, 8.0 pounds of resin per ton of core sand per hour and 1.12 pounds of TEA catalyst per ton of core sand, utilizing a cartridge collector for particulate control, exhausting to stack ID No. 9 and (1) scrubber (ID Scrubber #1) for control of triethylamine (TEA) emissions from core machines P4 and P5, exhausting through stack ID No.10A and (1) one scrubber (ID Scrubber #2) for control of TEA emissions from core machines P6 and P7, exhausting through stack ID No.10B.

The source voluntarily utilizes two (2) TEA scrubbers.

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

Emission Limitations and Standards [326 IAC 2-7-5(1)]

D.1.1 Particulate [326 IAC 6-3-2]

Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the allowable particulate emission rate from the coremaking operation shall not exceed 6.52 pounds per hour when operating at a process weight rate of 4,000 pounds per hour.

The pounds per hour limitation was calculated with the following equation:

Interpolation of the data for the process weight rate up to 60,000 pounds per hour shall be accomplished by use of the equation:

$$E = 4.10 P^{0.67} \quad \text{where } E = \text{rate of emission in pounds per hour; and} \\ P = \text{process weight rate in tons per hour}$$

D.1.2 PSD Minor Limit [326 IAC 2-2]

Total PM and PM10 emissions from the coremaking operation shall each not exceed 0.41 pound per ton of core sand throughput or 0.82 pound per hour.

This emission limit, in addition to the emission limits listed in conditions D.2.1 and D.2.2, yield PM and PM10 emissions from the two (2) gray iron foundry lines constructed in 1988, that are each less than 100 tons per year. Compliance with this limit makes 326 IAC 2-2 (Prevention of Significant Deterioration) not applicable

D.1.3 Volatile Organic Compounds (VOC) [326 IAC 8-1-6] [326 IAC 2-2]

In order to render the requirements of 326 IAC 8-1-6 (BACT) not applicable, the following conditions shall apply:

- (a) The total resin usage for core machines P4, P5, and P6, all constructed in 1988, shall not exceed 263,150 pounds of resin per 12 consecutive month period. The total amine gas catalyst usage for core machines P4, P5, and P6 shall not exceed 36,841 pounds of amine gas catalyst per 12 consecutive month period.

- (b) The VOC emissions (not including amine gas catalyst emissions) from each of the Isocure cold box core machines P4, P5, and P6 shall not exceed 0.05 pound per pound of resin.

This will limit the total VOC emissions from core machines P4, P5, and P6 to less than 25 tons per year before controls. Therefore, the three (3) isocure cold box core machines are not subject to the requirements of 326 IAC 8-1-6 (New Facilities; General Reduction Requirements). Compliance with these limits is also necessary to render the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) not applicable.

- (c) Any change or modification which increases emissions of VOC from core machine P7 to greater than 25 tons per year must be approved by the Office of Air Quality before change can occur.

The VOC emission limits and usage limits shall also render the requirements of 326 IAC 2-2 (PSD) not applicable.

D.1.4 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for these facilities and the cartridge collector for particulate control.

Compliance Determination Requirements

D.1.5 Particulate Control [326 IAC 2-7-6(6)]

- (a) In order to comply with conditions D.1.1 and D.1.2, the cartridge collector for particulate control shall be in operation and control emissions from the coremaking process at all times that the coremaking process is in operation.
- (b) In the event that bag failure is observed in a multi-compartment baghouse, if operations will continue for ten (10) days or more after the failure is observed before the failed units will be repaired or replaced, the Permittee shall promptly notify the IDEM, OAQ of the expected date the failed units will be repaired or replaced. The notification shall also include the status of the applicable compliance monitoring parameters with respect to normal, and the results of any response actions taken up to the time of notification.

Compliance Monitoring Requirements [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]

D.1.6 Visible Emissions Notations

- (a) Visible emission notations of the stack exhaust for the cartridge collector controlling the coremaking operation shall be performed once per day during normal daylight operations when exhausting to the atmosphere. A trained employee shall record whether emissions are normal or abnormal.
- (b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.
- (c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.
- (d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.

- (e) If abnormal emissions are observed, the Permittee shall take reasonable steps in accordance with Section C - Response to Excursions or Exceedances. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances shall be considered a deviation from this permit.

D.1.7 Parametric Monitoring

The Permittee shall record the pressure drop across the cartridge collector used in conjunction with the coremaking operation, at least once per day when the coremaking process is in operation when venting to the atmosphere. When for any one reading, the pressure drop across the cartridge collector is outside the normal range of 1.0 and 6.0 inches of water or a range established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedances. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances, shall be considered a deviation from this permit.

The instrument used for determining the pressure shall comply with Section C - Instrument Specifications, of this permit, shall be subject to approval by IDEM, OAQ, and shall be calibrated at least once every six (6) months.

D.1.8 Broken or Failed Baghouse and Cartridge Collector Detection

- (a) For a single compartment cartridge collector or baghouse controlling emissions from a process operated continuously, a failed units and the associated process shall be shut down immediately until the failed unit has been repaired or replaced. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).
- (b) For a single compartment cartridge collector or baghouse controlling emissions from a batch process, the feed to the process shall be shut down immediately until the failed unit has been repaired or replaced. The emissions unit shall be shut down no later than the completion of the processing of the material in the line. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).

Baghouse or cartridge collector failure can be indicated by a significant drop in the baghouse's or cartridge collector's pressure reading with abnormal visible emissions, by an opacity violation, or by other means such as gas temperature, flow rate, air infiltration, leaks, dust traces or triboflows

Record Keeping and Reporting Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19]

D.1.9 Record Keeping Requirements

- (a) To document compliance with Condition D.1.3 (a), the Permittee shall maintain records of the total amine gas catalyst and resin usages for the isocure cold box core machines P4, P5, and P6 each month. Records necessary to demonstrate compliance shall be available within 30 days of the end of each compliance period.
- (b) To document compliance with Condition D.1.3 (b) and (c), the Permittee shall maintain records of the type of binders used for all of the Isocure cold box core machines each month in order to demonstrate that the type of binder used has not changed. INTAT Precision, Inc. is permitted to use the following binders: Isocure Part I polymeric resin and Isocure Part II polymeric MDI type diisocyanate.
- (c) To document compliance with Condition D.1.6, the Permittee shall maintain records of visible emission notations of the coremaking operation cartridge collector stack exhaust.

- (d) To document compliance with Condition D.1.7, the Permittee shall maintain once per day records of the pressure drop during normal operation when venting to the atmosphere.
- (e) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

D.1.10 Reporting Requirements

A quarterly summary of the information to document compliance with Condition D.1.3(a) shall be submitted to the address listed in Section C - General Reporting Requirements, of this permit, using the reporting forms located at the end of this permit, or their equivalent, within thirty (30) days after the end of the quarter being reported. The report submitted by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

SECTION D.2

FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(15)]:

- (b) One (1) gray iron foundry line, constructed in 1988, consisting of the following:
- (1) Plant 1 Melting Operations originally constructed in 1988 and to be modified in 2004, consisting of:
- (A) One (1) indoor charge handling system for the three (3) electric induction furnaces, with a total maximum throughput capacity of 20 tons of metal per hour, consisting of three (3) units, identified as P1, P2, and P3, each with a maximum throughput capacity of 10 tons of metal per hour;
- Note: The power control system at the plant limits the total maximum throughput of the charge handling system to 20 tons of metal per hour.
- (B) One (1) melting system, identified as P8, with a maximum capacity of 20 tons of metal per hour, consisting of three (3) electric induction furnaces, each with a melting capacity of 10 tons per hour, utilizing two (2) cartridge collectors for particulate control, exhausting to stack ID Nos. 3A and 3B;
- Note: The maximum throughput of metal for the melting system is limited to 20 tons per hour by the maximum throughput from the charge handling system of 20 tons of metal per hour.
- (C) One (1) holding system consisting of the following equipment:
- (1) Two (2) electric holding furnaces, identified as P9, each with a holding capacity of 50 tons and a total maximum throughput capacity of 100 tons of metal per hour, utilizing two (2) cartridge collectors for particulate control, exhausting to stack ID Nos. 3A and 3B;
- (2) Six (6) ladle heaters to be replaced in 2004, identified as P10, each with a heating capacity of 2.3 million British thermal units (MMBtu) per hour, each combusting natural gas, exhausting to stacks 12A, 12B and 12C.
- (D) One (1) inoculation system consisting of two (2) metal treatment ladles to be replaced in 2004 identified as P11, each with a maximum throughput capacity of 10 tons of metal per hour, controlled by Dust Collectors DC-3A and DC-3B for particulate control, exhausting to a common stack 3B.
- (c) Plant 1 Casting Line 1 constructed in 1988 with a capacity of 10 tons of metal and 75 tons of sand per hour, whose total capacity is further restricted by the overall melt capacity of 20 tons of metal/hour for both Lines 1 and 2, consisting of the following equipment:
- (1) One (1) sand system consisting of units identified as P32A, P33A, P34A, P35A, P36A, P37A and P39A, controlled by baghouses DC2 and DC3A, exhausting to stacks 2 and 3A.
- (2) One (1) pouring station identified as P13A controlled by dust collector DC2, exhausting to stack 2.
- (3) One (1) cooling line identified as P14A, controlled by dust collector DC1B, exhausting to stack 1A.

- (4) One (1) shakeout unit identified as P16A, controlled dust collectors DC1B and DC2, exhausting to stacks 1B and 2.
- (5) Casting conveyors identified as P17A, P18A, P19A, P20A, P21A, P22A, controlled by baghouses DC-6A stack 6A.
- (6) Shot blast processes consisting of two shot blast units identified as P26, and P27 with a total capacity of 12 tons of metal/hour, controlled by dust collector DC-8A, exhausting to stack 8A.
- (7) Grinding processes identified as P29 and P30, with a total capacity of 12 tons of metal/hour, controlled by dust collector DC-8A, exhausting to stack 8A .

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

Emission Limitations and Standards [326 IAC 2-7-5(1)]

D.2.1 BACT for PM10

- (a) Pursuant to 326 IAC 2-2-3, the Permittee shall comply with the following BACT required emission limits for PM10 from the Plant 1, Line 1 processes (PM10 limits include both filterable and condensable).

Process	Stack No.	PM10 Emission Limitation (gr/dscf)	PM10 Limitation (lb/hr)
2 Metal Treatment Ladles	3B	0.003	1.70

- (b) Pursuant to 326 IAC 2-2-3, opacity for stacks No. 3A, and 3B shall not exceed ten percent (10%) for more than three (3) consecutive six (6) minute averaging periods.
- (c) The ladle heaters are exclusively natural gas fired and are therefore considered to meet the requirements for BACT.

D.2.2 PSD Minor Limit [326 IAC 2-2]

The charge handling operation (P1, P2, P3) shall comply with the following limits:

- (a) Emissions of PM and PM10 shall each not exceed 0.24 pound per hour.
- (b) Opacity shall not exceed an average of three percent (3%) based on four (4) consecutive readings using 40 CFR 60, Appendix A, Method 9.

This emission limit, yields PM and PM10 emissions from the gray iron foundry line 1, constructed in 1988, that is less than 100 tons per year. Therefore, the requirements of 326 IAC 2-2 (PSD) are not applicable to this line.

D.2.3 PSD Minor Limit [326 IAC 2-2]

Emissions of PM and PM10 and the throughput of metal and sand for Plant 1, Line 1 constructed in 1988, shall be limited as follows:

Process	Material	PM Emission Limitation (Lb/ton material)	Throughput Limit (Tons/12 consecutive month period)
6 Ladles Heater	Metal	0.20	90,000
2 Metal Treatment Inoculation Ladles	Meta	0.20	90,000
Melting System (P8) and Holding Furn. (P9)	Metal Melted	0.20	90,000
Inoculation (P11)	Metal	0.20	90,000
Pouring (P13A)	Metal Poured	0.17	90,000
Casting Cooling (P14A)	Metal	0.17	90,000
Shakeout (P16A)	Metal	0.20	90,000
Conveying (P17A - P22A)	Metal	0.16	90,000
Shotblast Operations (P26 & P27)	Metal	0.20	90,000
Sand Handling	Mold Sand	0.05	777,600
Grinding (P29 - P30)	Metal	0.20	90,000

Compliance with the throughput limits shall be determined at the end of each month.

These emission limits and the throughput limits, combined with limited PM and PM10 emissions from the charge handling operation, the core making operation, the melt system and inoculation process yield PM and PM10 emissions from the gray iron foundry line 1 constructed in 1988 that are less than 100 tons per year. Therefore, the requirements of 326 IAC 2-2 (PSD) are not applicable.

D.2.4 Particulate [326 IAC 6-3-2]

Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the allowable particulate emission rates from the Plant 1, Line 1 gray iron foundry line shall be limited as follows:

Unit	Stack ID	Process Weight Rate (ton per hour)	Allowable Emissions (pounds per hour)
Charge Handling (P1, P2, P3)	N/A	20.0	30.51
Melting System - Electric Induction Furnace (P8) and Holding Furnaces (P9)	3A,3B	20.0	30.51
Pouring (P13A)*	2	85.0	49.67
Casting Cooling (P14A)*	1A	85.0	49.67
Shakeout (P16A)*	1B	85.0	49.67

Unit	Stack ID	Process Weight Rate (ton per hour)	Allowable Emissions (pounds per hour)
Conveying (P17A - P22A)	6B, 7	5.0	12.05
Grinding (P29 - P30)	8A	3.0	8.56
Sand Handling (P32 - P39)	2, 3A	75.00	48.43

* Includes metal and sand throughput.

The pounds per hour limitations were calculated with the following equations:

Interpolation of the data for the process weight rate up to 60,000 pounds per hour shall be accomplished by use of the equation:

$$E = 4.10 P^{0.67} \quad \text{where } E = \text{rate of emission in pounds per hour; and } P = \text{process weight rate in tons per hour}$$

or

Interpolation and extrapolation of the data for the process weight rate in excess of 60,000 pounds per hour shall be accomplished by use of the equation:

$$E = 55.0 P^{0.11} - 40 \quad \text{where } E = \text{rate of emission in pounds per hour; and } P = \text{process weight rate in tons per hour}$$

D.2.5 Volatile Organic Compounds (VOC) [326 IAC 8-1-6]

- (a) VOC emissions from the inoculation operation (P11) shall not exceed 0.005 pound of VOC per ton of metal throughput.
- (b) VOC emissions from the pouring operation (P13A), cooling operation (P14A) and shakeout (P16A) combined shall not exceed 0.8 pound of VOC per ton of metal throughput.
- (c) The throughput of metal to each of the inoculation (P11), pouring (P13A), and shakeout operations (P16A) shall not exceed 61,500 tons per twelve (12) consecutive month period, with compliance determined at the end of each month.

The metal throughput limit and the VOC emission limits yield VOC emissions from the foundry operations constructed in 1988 that are less than 25 tons per year. Therefore, the requirements of 326 IAC 8-1-6 (New Facilities, General Reduction Requirements) do not apply.

D.2.6 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for these facilities and their control devices.

Compliance Determination Requirements

D.2.7 Testing Requirements [326 IAC 2-7-6(1),(6)] [326 IAC 2-1.1-11]

- (a) Within 60 days after achieving maximum capacity but no later than 180 days after startup, in order to demonstrate compliance with Conditions D.2.1, the Permittee shall perform PM10 testing (for both filterable and condensible PM10) for the following facilities utilizing methods as approved by the Commissioner
- (1) the cartridge collector controlling the ladle heaters (P10) exhausting to stack 3A.
 - (2) the baghouse controlling the metal inoculation heaters (P11) exhausting to stack 3B.
- (b) Within 180 days after issuance of this Part 70 permit, in order to demonstrate compliance with Conditions D.2.3 and D.2.4, the Permittee shall perform PM and PM10 testing for the following facilities utilizing methods as approved by the Commissioner:
- (1) the cartridge collectors controlling the melting system (P8), (P9) and the inoculation operation (P11) exhausting to stacks 3A and 3B;
 - (2) the cartridge collector controlling the pouring operation (P13A) exhausting to stack 2;
 - (3) the cartridge collector controlling the cooling line, P14A, of the casting cooling operation exhausting to stack 1A . Testing will be required on the cartridge collector;
 - (4) the cartridge collectors controlling the shakeout operation (P16A) exhausting to stack 1B;
 - (5) the cartridge collectors controlling the conveying operation (P17A - P22A) exhausting to stack 6A;
 - (6) the cartridge collectors controlling the shotblast (P26 & P27) and grinding operations (P29 & P30) exhausting to stack 7 and 8A ; and
 - (7) the cartridge collectors controlling the sand handling operations (P32A - P37A, & P39A) exhausting to stacks 3A and 2.

These tests shall be repeated at least once every five (5) years from the date of this valid compliance demonstration. PM10 includes filterable and condensible PM10. Testing shall be conducted in accordance with Section C- Performance Testing.

D.2.8 Particulate Control [326 IAC 2-7-6(6)]

- (a) In order to comply with conditions D.2.3 and D.2.4, the cartridge collectors for particulate control shall be in operation and control emissions from the melting, ladle heaters, inoculation, pouring, cooling, shakeout, conveying, shotblasting, grinding, and sand handling processes at all times that these facilities are in operation.
- (b) In the event that bag failure is observed in a multi-compartment baghouse, if operations will continue for ten (10) days or more after the failure is observed before the failed units will be repaired or replaced, the Permittee shall promptly notify the IDEM, OAQ of the expected date the failed units will be repaired or replaced. The notification shall also include the status of the applicable compliance monitoring parameters with respect to normal, and the results of any response actions taken up to the time of notification.

Compliance Monitoring Requirements [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]

D.2.9 Visible Emissions Notations

- (a) Visible emission notations of the charge handling operation and the stack exhausts for the melting, ladle heating, inoculation, pouring, cooling, shakeout, conveying, shotblasting,

grinding, and sand handling processes shall be performed once per day during normal daylight operations when exhausting to the atmosphere. A trained employee shall record whether emissions are normal or abnormal.

- (b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.
- (c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.
- (d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.
- (e) If abnormal emissions are observed, the Permittee shall take reasonable steps in accordance with Section C - Response to Excursions or Exceedances. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances shall be considered a deviation from this permit.

D.2.10 Parametric Monitoring

The Permittee shall record the pressure drop across each of the baghouses and cartridge collectors used in conjunction with the melting, ladle heating, inoculation, pouring, cooling, shakeout, conveying, shotblasting, grinding, and sand handling processes, at least once per day when the melting, inoculation, pouring, cooling, shakeout, conveying, shotblasting, grinding, and sand handling processes are in operation when venting to the atmosphere. When for any one reading, the pressure drop across any of the cartridge collectors is outside the normal range of 1.0 and 6.0 inches of water or a range established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedances. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances, shall be considered a deviation from this permit.

The instrument used for determining the pressure shall comply with Section C - Instrument Specifications, of this permit, shall be subject to approval by IDEM, OAQ, and shall be calibrated at least once every six (6) months.

D.2.11 Broken or Failed Baghouse and Cartridge Collector Detection

- (a) For a single compartment baghouse or cartridge collector controlling emissions from a process operated continuously, a failed unit and the associated process shall be shut down immediately until the failed unit has been repaired or replaced. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).
- (b) For a single compartment baghouse or cartridge collector controlling emissions from a batch process, the feed to the process shall be shut down immediately until the failed unit has been repaired or replaced. The emissions unit shall be shut down no later than the completion of the processing of the material in the line. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).

Baghouse or cartridge collector failure can be indicated by a significant drop in the baghouse's or cartridge collector's pressure reading with abnormal visible emissions, by an opacity violation, or by other means such as gas temperature, flow rate, air infiltration, leaks, dust traces or triboflows

Record Keeping and Reporting Requirement [326 IAC 2-7-5(3)] [326 IAC 2-7-19]

D.2.12 Record Keeping Requirements

(a) To document compliance with Condition D.2.3, the Permittee shall maintain the following records:

- (1) The metal throughput to the melting, inoculation, pouring, cooling, shakeout, conveying, shotblasting, and grinding operations for each month.
- (2) The sand throughput to the sand handling operation for each month.

Records of metal throughput to the inoculation, pouring, cooling, and shakeout operations shall also be used to document compliance with condition D.2.5(d). Records necessary to demonstrate compliance shall be available within 30 days of the end of each compliance period.

- (b) To document compliance with Condition D.2.9, the Permittee shall maintain records of visible emission notations of the charge handling operation and the stack exhausts for the melting, inoculation, pouring, cooling, shakeout, conveying, shotblasting, grinding, and sand handling processes once per day.
- (c) To document compliance with Condition D.2.10, the Permittee shall maintain once per day records of the pressure drop during normal operation when venting to the atmosphere.
- (d) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

D.2.13 Reporting Requirements

A quarterly summary of the information to document compliance with Conditions D.2.3 and D.2.5(d) shall be submitted to the address listed in Section C - General Reporting Requirements, of this permit, using the reporting forms located at the end of this permit, or their equivalent, within thirty (30) days after the end of the quarter being reported. The report submitted by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

SECTION D.3

FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(15)]:

One (1) gray iron foundry line, constructed in 1988, consisting of the following:

- (d) Plant 1, Casting Line 2 to be constructed in 2004, with a capacity of 15 tons of metal and 70 tons of sand per hour consisting of the following equipment:
 - (1) One (1) sand system consisting of units identified as P32B, P33B, P34B, P35B, P36B, P37B and P39B, controlled by baghouses BH1-6300 and BH1-6400, and exhausting to stack 1- 6300/6400 (1-6300/6400 is a single stack).
 - (2) One (1) pouring station identified as P13B controlled by baghouse DC3B, exhausting to stack 3B.
 - (3) One (1) cooling line identified as P14B, controlled by baghouse BH1-6200, exhausting to stack 1-6200.
 - (4) One (1) shakeout unit identified as P16B, controlled by baghouse BH1-6200, exhausting to stack 1-6200.
 - (5) One (1) bad heat shakeout unit controlled by cartridge collector DC-5, exhausting to stack 5.
 - (6) Casting conveyors identified as P17B, P18B, P19B, P20B, P21B, and P22B, controlled by baghouses DC-7, and DC-8B, exhausting inside the building, and baghouse DC-6B exhausting to stack 6B.
 - (7) One (1) Plant 1, Line 2 shot blast process consisting of three shot blast units identified as P40, P41 and P42 with a maximum capacity of 5.3 tons of metal per hour and with a combined maximum capacity for all three of 11.3 tons of metal per hour, controlled by cartridge collector DC-8B, exhausting inside the building.

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

Emission Limitations and Standards [326 IAC 2-7-5(1)]

D.3.1 BACT for PM10

- (a) Pursuant to 326 IAC 2-2-3, the Permittee shall comply with the following BACT required emission limits for PM10 from the Plant 1, Line 2 processes (PM10 limits include both filterable and condensable).

- (b) The OAQ may revise this permit to adjust the total PM10 condensable limitation based on the results of stack test required in Condition D.3.6. The Department will provide an opportunity for public notice and comment prior to finalizing any permit revision.
- (c) Total PM10 (including filterable and condensable) emissions from melting, pouring, cooling, shakeout, conveying, shotblast, sand handling and bad heat shakeout operations of Plant 1, Line 2 shall not exceed 1.813 pounds per ton of metal.

Stack No.	Process	Collector Air Flow Rate (cuft /min)	Filterable PM10 Emission Limitation (gr/dscf) / (lb/hr)	Total PM10 Emission Limitation (lb/ton) Filterable & Condensable
3B	Pouring, Melt & Metal Treatment	66,225	0.003 / 1.7	0.633
1-6300 & 1-6400	Sand Handling (P32B-P37B & P39B)	44,000	0.003 / 1.13	0.02
1-6200	Casting Cool (P14B), Shakeout (P16B)	111,000	0.003/ 2.85	1.045
6B	Shotblast (P40, 41, & 42) Casting Conveyors (P17B-P22B)	40,000	0.003 / 1.03	0.085
5	Bad Heat Shakeout	17,400	0.003 / 0.45	0.03
Total				1.813

- (d) Pursuant to 326 IAC 2-2-3, opacity for stacks No. 3B, 1-6200, 6B, 1-6300/6400 and 5 shall not exceed ten percent (10%) for more than three (3) consecutive six (6) minute averaging periods.

D.3.2 PM Emissions

In order to render PSD not applicable for PM the following limits shall apply:

- (a) PM filterable emissions from pouring, cooling, shakeout, conveying, shotblast, sand handling and bad heat shakeout operations of Plant 1, Line 2 shall not exceed 0.003 gr/dscf equivalent to 0.38 pounds per ton of metal.
- (b) Metal throughput to Plant 1, casting Line 2 shall not exceed 61,500 tons per 12 consecutive month period with compliance determined at the end of each month. During the first 12 months of operation the limit shall be 5,125 tons per month.
- (c) Sand throughput to Plant 1, casting Line 2 shall not exceed 215,230 tons per 12 consecutive month period with compliance determined at the end of each month. During the first 12 months of operation the limit shall be 17,935 tons per month.

D.3.3 Particulate [326 IAC 6-3-2]

Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the allowable particulate emission rates from the Line 2 gray iron foundry line shall be limited as follows:

Unit	Stack ID	Process Weight Rate (ton per hour)	Allowable Emissions (pounds per hour)
Pouring (P13B)*	3B	85.0	49.67
Casting Cooling (P14B)*	1-6200	85.0	49.67
Shakeout (P16B)*	1-6200	85.0	49.67
Conveying (P17B - P22B)	8B	15.0	25.16
Shotblast Operations	6B	9.0	17.87
Sand Handling (P32B – P37B & P39)	1-6300/6400	70.0	47.76

The pounds per hour limitations were calculated with the following equations:

Interpolation of the data for the process weight rate up to 60,000 pounds per hour shall be accomplished by use of the equation:

$$E = 4.10 P^{0.67} \quad \text{where } E = \text{rate of emission in pounds per hour; and} \\ P = \text{process weight rate in tons per hour}$$

or

Interpolation and extrapolation of the data for the process weight rate in excess of 60,000 pounds per hour shall be accomplished by use of the equation:

$$E = 55.0 P^{0.11} - 40 \quad \text{where } E = \text{rate of emission in pounds per hour; and} \\ P = \text{process weight rate in tons per hour}$$

D.3.4 VOC Emissions [326 IAC 2-2] [326 IAC 8-1-6]

In order to render the requirements of 326 IAC 2-2 (PSD) and 326 IAC 8-1-6(BACT) not applicable for VOC's, the following conditions shall apply:

- (a) The metal throughput to Line 2 of the Plant 1 process shall not exceed 61,500 tons per 12 consecutive month period, with compliance determined at the end of each month.
- (b) VOC emissions shall not exceed 0.8 lb/ ton of metal from the pouring, cooling, shakeout and bad heat shakeout combined.
- (c) The sand throughput to Line 2 of the Plant 1 process shall not exceed 215,230 tons per 12 consecutive month period, with compliance determined at the end of each month.

These limits will equate to a total VOC emission level from the Plant 1 operations of less than 25 tons of VOC per 12 consecutive month period, therefore the requirements of PSD and 326 IAC 8-1-6 will not apply.

D.3.5 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for these facilities and their control devices.

Compliance Determination Requirements

D.3.6 Testing Requirements [326 IAC 2-7-6(1),(6)] [326 IAC 2-1.1-11]

- (a) Within 60 days after achieving maximum capacity but no later than 180 days after startup, in order to demonstrate compliance with Conditions D.3.1 and D.3.2, D.3.3 the Permittee shall perform PM and PM10 testing (for both filterable and condensable PM10) for the following facilities utilizing methods as approved by the Commissioner.
- (1) the baghouse, DC3B, controlling the pouring operation (P13B) exhausting to stack 3B.
 - (2) the baghouse BH1-6200 controlling the cooling operation (P14B) and the shakeout process (P16B) exhausting to stack 1- 6200.
 - (3) the baghouse DC-6B and the cartridge collector DC-8B controlling the casting conveyor and the shotblast system, exhausting to stack 6B.
 - (4) baghouses BH 1-6300 and BH 1-6400 controlling the sand handling system exhausting to stack 1-6300/6400.
- (b) Within 60 days after achieving maximum capacity but no later than 180 days after startup of the Line 2 modifications, in order to demonstrate compliance with Condition D.3.4, the Permittee shall perform VOC testing for the pouring (P13B), cooling (P14B), and the shakeout (P16B) operations exhausting to stacks 3B and 1-6200 utilizing methods as approved by the Commissioner.

These tests shall be repeated at least once every five (5) years from the date of this valid compliance demonstration. Testing shall be conducted in accordance with Section C-Performance Testing.

D.3.7 Particulate Control [326 IAC 2-7-6(6)]

- (a) Pursuant to CP-139-8845-00011, issued on December 10, 1997, and in order to comply with conditions D.3.1 and D.3.2, the cartridge collectors and baghouses for particulate control shall be in operation and control emissions from the pouring, cooling, shakeout, conveying, shotblasting, and sand handling processes at all times that these facilities are in operation.
- (b) In the event that bag failure is observed in a multi-compartment baghouse, if operations will continue for ten (10) days or more after the failure is observed before the failed units will be repaired or replaced, the Permittee shall promptly notify the IDEM, OAQ of the expected date the failed units will be repaired or replaced. The notification shall also include the status of the applicable compliance monitoring parameters with respect to normal, and the results of any response actions taken up to the time of notification.

Compliance Monitoring Requirements [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]

D.3.8 Visible Emissions Notations

- (a) Visible emission notations of the stack exhausts for the pouring, cooling, shakeout, conveying, shotblasting bad heat shakeout and sand handling processes shall be performed once per day during normal daylight operations when exhausting to the atmosphere. A trained employee shall record whether emissions are normal or abnormal.
- (b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.

- (c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.
- (d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.
- (e) If abnormal emissions are observed, the Permittee shall take reasonable steps in accordance with Section C - Response to Excursions or Exceedances. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances shall be considered a deviation from this permit.

D.3.9 Parametric Monitoring

The Permittee shall record the pressure drop across each of the baghouses and cartridge collectors used in conjunction with the pouring, cooling, shakeout, conveying, shotblasting and sand handling processes, at least once per day when the pouring, cooling, shakeout, conveying, shotblasting and sand handling processes are in operation when venting to the atmosphere. When for any one reading, the pressure drop across any of the baghouses is outside the normal range of 1.0 and 6.0 inches of water or a range established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedances. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances, shall be considered a deviation from this permit.

The instrument used for determining the pressure shall comply with Section C - Instrument Specifications, of this permit, shall be subject to approval by IDEM, OAQ, and shall be calibrated at least once every six (6) months.

D.3.10 Broken or Failed Baghouse and Cartridge Collector Detection

- (a) For a single compartment baghouse or cartridge collector controlling emissions from a process operated continuously, a failed unit and the associated process shall be shut down immediately until the failed unit has been repaired or replaced. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).
- (b) For a single compartment baghouse or cartridge collector controlling emissions from a batch process, the feed to the process shall be shut down immediately until the failed unit has been repaired or replaced. The emissions unit shall be shut down no later than the completion of the processing of the material in the line. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).

Baghouse or cartridge collector failure can be indicated by a significant drop in the baghouse's or cartridge collector's pressure reading with abnormal visible emissions, by an opacity violation, or by other means such as gas temperature, flow rate, air infiltration, leaks, dust traces or triboflows

Record Keeping and Reporting Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19]

D.3.11 Record Keeping Requirements

- (a) To document compliance with Condition D.3.2, the Permittee shall maintain records of the amount of sand and metal throughput of the operation.
- (b) To document compliance with Condition D.3.9, the Permittee shall maintain once per day records of the pressure drop during normal operation when venting to the atmosphere.

- (c) To document compliance with Condition D.3.8, the Permittee shall maintain records of visible emission notations of the charge handling operation and the stack exhausts for the melting, inoculation, pouring, cooling, shakeout, conveying, shotblasting and sand handling processes taken once per day.
- (d) All records shall be maintained in accordance with Section C- General Record Keeping Requirements, of this permit.

D.3.12 Reporting Requirements

A quarterly summary of the information to document compliance with Condition D.3.4 shall be submitted to the address listed in Section C - General Reporting Requirements, of this permit, using the reporting forms located at the end of this permit, or their equivalent, within thirty (30) days after the end of the quarter being reported. The report submitted by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

SECTION D.4

FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(15)]:

- (e) Plant 2, one (1) gray iron foundry line, constructed in 1997, consisting of the following:
- (1) One (1) indoor charge handling system, identified as ID # 1000A, with a maximum capacity of 10 tons of metal per hour;
 - (2) One (1) melting and pouring system, identified as ID # 1000, with a maximum capacity of 10 tons of metal per hour, utilizing a baghouse (ID # BH6100) for particulate control, exhausting to stack ID # 6100, consisting of the following equipment:
 - (A) Two (2) electric induction furnaces, each with a maximum capacity of 10 tons of metal per hour;
 - (B) One (1) electric holding furnace;
 - (C) Two (2) natural gas-fired ladle heaters, identified as ID # 6600 and 6610, each with a maximum heat input rate of 2 MMBtu per hour;
- Note: The maximum throughput of metal for the melting and pouring system is limited to 10 tons per hour by the maximum throughput from the charge handling system of 10 tons of metal per hour and the power control systems at the plant.
- (3) One (1) mold/casting cooling system, identified as ID # 2000, with a maximum capacity of 10 tons of metal per hour and 70 tons of sand per hour, utilizing one (1) baghouse (ID # BH6200) for particulate control, exhausting to stack ID #s 6200A and 6200B;
 - (4) One (1) casting shakeout system, identified as ID # 3000, with a maximum capacity of 10 tons of metal per hour and 70 tons of sand per hour, utilizing one (1) baghouse (ID # BH6200) for particulate control, exhausting to stack ID #s 6200A and 6200B;
 - (5) One (1) sand and waste sand handling system, identified as ID # 4000, with a maximum capacity of 70 tons of sand per hour, utilizing two (2) baghouses (BH6300 and BH6400) for particulate control, exhausting to stack ID #s 6300 and 6400;
 - (6) One (1) finishing operation, identified as ID # 8000, with a maximum capacity of 5.5 tons of metal per hour, consisting of trim presses, uncontrolled.

Insignificant Activities:

- (i)(1) Six (6) bench grinders, identified as ID #8000, with maximum capacity of 5.5 tons of metal per hour, utilizing fabric filters (FFA, FFB, FFC, FFD, and FFE) for control; four (4) grinders each controlled by one fabric filter, and two (2) grinders controlled by one (1) fabric filter. [326 IAC 6-3-2]

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

Emission Limitations and Standards [326 IAC 2-7-5(1)]

D.4.1 PSD Minor Limit [326 IAC 2-2]

The charge handling operation (1000A) shall comply with the following limits:

- (a) Emissions of PM and PM10 shall each not exceed 0.12 pound per hour.
- (b) Opacity shall not exceed an average of three percent (3%) based on four (4) consecutive readings using 40 CFR 60, Appendix A, Method 9.

This emission limit, in addition to the emission limits listed in condition D.3.2, yield PM and PM10 emissions from the one (1) gray iron foundry line, constructed in 1997, that are each less than 100 tons per year. Therefore, the requirements of 326 IAC 2-2 (PSD) are not applicable.

D.4.2 PSD Minor Limit [326 IAC 2-2]

Emissions of PM and PM10 and the throughput of metal and sand for the one (1) gray iron foundry line, constructed in 1997, shall be limited as follows:

Process	Material	PM/PM10 Emission Limitation (lb/ton material)	Throughput Limit (tons per 12 consecutive month period)
Melting & Pouring (1000)	Metal	0.70	70,000
Mold/Casting Cooling (2000)	Metal	0.60	70,000
Shakeout (3000)	Metal	0.80	70,000
Sand & Waste Sand Handling System (4000)	Mold Sand	0.10	490,000
Grinding/Cleaning (8000)	Metal	0.03	48,180 (Maximum throughput)

Compliance with the throughput limits shall be determined at the end of each month.

These emission limits and the throughput limits, combined with limited PM and PM10 emissions from the charge handling operation, yield PM and PM10 emissions from the one (1) gray iron foundry line constructed in 1997 that are each less than 100 tons per year. Therefore, the requirements of 326 IAC 2-2 (PSD) are not applicable. Any emissions from the electric holding furnace are accounted for in the emissions from melting in the electric induction furnaces.

D.4.3 Particulate [326 IAC 6-3-2]

Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the allowable particulate emission rates from the one (1) gray iron foundry line shall be limited as follows:

Unit	Stack ID	Process Weight Rate (ton per hour)	Allowable Emissions (pounds per hour)
Charge Handling (1000A)	NA	10.0	19.18
Melting & Pouring (1000)	6100	10.0	19.18
Mold/Casting Cooling (2000)*	6200A	80.0	49.06
Casting Shakeout (3000)*	6200B	80.0	49.06
Sand & Waste Sand Handling (4000)	6300	70.0	47.77
Grinding/Cleaning (8000)	NA	5.50	12.85

* Includes metal and sand throughput.

The pounds per hour limitations were calculated with the following equations:

Interpolation of the data for the process weight rate up to 60,000 pounds per hour shall be accomplished by use of the equation:

$$E = 4.10 P^{0.67} \quad \text{where } E = \text{rate of emission in pounds per hour; and} \\ P = \text{process weight rate in tons per hour}$$

or

Interpolation and extrapolation of the data for the process weight rate in excess of 60,000 pounds per hour shall be accomplished by use of the equation:

$$E = 55.0 P^{0.11} - 40 \quad \text{where } E = \text{rate of emission in pounds per hour; and} \\ P = \text{process weight rate in tons per hour}$$

D.4.4 Volatile Organic Compounds (VOC)[326 IAC 2-2-3] [326 IAC 8-1-6]

- (a) VOC emissions from the pouring operations (1000) and cooling operation (2000) and shakeout operation (3000) combined shall not exceed 0.8 pound of VOC per ton of metal throughput;
- (b) The throughput of metal to each of the pouring (1000), cooling (2000), and shakeout operation (3000) shall not exceed 61,500 tons per twelve (12) consecutive month period, with compliance determined at the end of each month.

The metal throughput limit and the VOC emission limits yield VOC emissions from the one (1) foundry line constructed in 1997 that are less than 25 tons per year. Therefore, the requirements of 326 IAC 8-1-6 (New Facilities, General Reduction Requirements) do not apply.

D.4.5 Hazardous Air Pollutants (HAPs) [326 IAC 2-4.1-1]

Emissions of manganese for the one (1) gray iron foundry line, constructed in 1997, shall be limited as follows:

Process	Manganese Emission Limitation (lb/hr)
Melting Pouring (1000)	1.92
Mold/Casting Cooling (2000)	0.01
Shakeout (3000)	0.28
Grinding/Cleaning (8000)	0.06

These emission limits yield manganese emissions from the one (1) gray iron foundry line constructed in 1997 that are less than 10 tons per year. Therefore, the requirements of 326 IAC 2- 4.1-1 (New Source Toxics Control) are not applicable.

D.4.6 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for these facilities and their control devices.

Compliance Determination Requirements

D.4.7 Testing Requirements [326 IAC 2-7-6(1),(6)] [326 IAC 2-1.1-11]

(a) During the period between January, 2005 and June, 2005, in order to demonstrate compliance with Conditions D.4.2, D.4.3, and D.4.5, the Permittee shall perform PM, PM-10, and manganese testing for the following facilities utilizing methods as approved by the Commissioner:

- (1) the baghouse controlling the melting & pouring operation (1000) exhausting to stack 6100;
- (2) the baghouse controlling the mold/casting cooling system (2000) exhausting to stack 6200A;
- (3) the baghouse controlling the shakeout operation (3000) exhausting to stack 6200B;
- (4) the baghouse controlling the sand handling system (4000) exhausting to stack 6300 (PM and PM10 testing only);
- (5) the baghouse controlling the waste sand handling system (7000) exhausting to stack 6400 (PM and PM-10 testing only); and
- (6) the one dust collector controlling two (2) grinders, exhausting to room.

These tests shall be repeated at least once every five (5) years from the date of this valid compliance demonstration. PM-10 includes filterable and condensable PM-10. Testing shall be conducted in accordance with Section C- Performance Testing.

(b) Within 180 days after issuance of this Part 70 permit, in order to demonstrate compliance with Condition D.4.4, the Permittee shall perform VOC testing for the pouring (1000), cooling (2000), and shakeout operation (3000) utilizing methods as approved by the Commissioner. These tests shall be repeated at least once every five (5) years from the date of this valid compliance demonstration. Testing shall be conducted in accordance with Section C- Performance Testing.

D.4.8 Particulate Control [326 IAC 2-7-6(6)]

(a) Pursuant to CP-139-8845-00011, issued on December 10, 1997, and in order to comply with conditions D.4.2 and D.4.3, the baghouses and fabric filters for particulate and

metallic HAP control shall be in operation and control emissions from the melting, pouring, cooling, shakeout, sand handling, waste sand handling, and grinding/cleaning processes at all times that these facilities are in operation.

- (b) In the event that bag failure is observed in a multi-compartment baghouse, if operations will continue for ten (10) days or more after the failure is observed before the failed units will be repaired or replaced, the Permittee shall promptly notify the IDEM, OAQ of the expected date the failed units will be repaired or replaced. The notification shall also include the status of the applicable compliance monitoring parameters with respect to normal, and the results of any response actions taken up to the time of notification.

Compliance Monitoring Requirements [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]

D.4.9 Visible Emissions Notations

- (a) Visible emission notations of the charge handling operation and the stack exhausts for the melting, pouring, cooling, shakeout, sand handling, waste sand handling, and grinding/cleaning processes shall be performed once per day during normal daylight operations when exhausting to the atmosphere. A trained employee shall record whether emissions are normal or abnormal.
- (b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.
- (c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.
- (d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.
- (e) If abnormal emissions are observed, the Permittee shall take reasonable steps in accordance with Section C - Response to Excursions or Exceedances. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances shall be considered a deviation from this permit.

D.4.10 Parametric Monitoring

The Permittee shall record the pressure drop across each of the baghouses used in conjunction with the melting, pouring, cooling, shakeout, sand handling, waste sand handling, and grinding/cleaning processes, at least once per day when the melting, pouring, cooling, shakeout, sand handling, waste sand handling, and grinding/cleaning processes are in operation when venting to the atmosphere. When for any one reading, the pressure drop across any of the baghouses is outside the normal range of 1.0 and 8.0 inches of water or a range established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedances. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances, shall be considered a deviation from this permit.

The instrument used for determining the pressure shall comply with Section C - Instrument Specifications, of this permit, shall be subject to approval by IDEM, OAQ, and shall be calibrated at least once every six (6) months.

D.4.11 Broken or Failed Bag and Cartridge Collector Detection

- (a) For a single compartment baghouse or cartridge collector controlling emissions from a process operated continuously, a failed units and the associated process shall be shut down immediately until the failed unit has been repaired or replaced. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).
- (b) For a single compartment baghouse or cartridge collector controlling emissions from a batch process, the feed to the process shall be shut down immediately until the failed unit has been repaired or replaced. The emissions unit shall be shut down no later than the completion of the processing of the material in the line. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).

Baghouse or cartridge collector failure can be indicated by a significant drop in the baghouse's or cartridge collector's pressure reading with abnormal visible emissions, by an opacity violation, or by other means such as gas temperature, flow rate, air infiltration, leaks, dust traces or triboflows

Record Keeping and Reporting Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19]

D.4.12 Record Keeping Requirements

- (a) To document compliance with Condition D.4.9, the Permittee shall maintain records of visible emission notations of the charge handling operation and the stack exhausts for the melting, pouring, cooling, shakeout, conveying, shotblasting and sand handling, processes taken once per day.
- (b) To document compliance with Condition D.4.10, the Permittee shall maintain once per day records of the pressure drop during normal operation when venting to the atmosphere.
- (c) All records shall be maintained in accordance with Section C- General Record Keeping Requirements, of this permit.

D.4.13 Reporting Requirements

A quarterly summary of the information to document compliance with Condition D.4.4 shall be submitted to the address listed in Section C - General Reporting Requirements, of this permit, using the reporting forms located at the end of this permit, or their equivalent, within thirty (30) days after the end of the quarter being reported. The report submitted by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

SECTION D.5

FACILITY CONDITIONS

Facility Description [326 IAC 2-7-5(15)]: Insignificant Activities:

- (a) Natural gas-fired combustion sources with heat input equal to or less than ten million (10,000,000) British thermal units (Btu) per hour;
 - (1) Two (2) boilers, identified as P40 and P41, with a maximum heat capacity of 0.9 and 1.2 million British units per hour, respectively, each combusting natural gas;
- (b) Degreasing operations that do not exceed 145 gallons per 12 months, except if subject to 326 IAC 20-6 (Maintenance parts cleaner using mineral spirits solvent that is 100% recycled, with a maximum throughput of 120 gallons per 12 months); [326 IAC 8-3-2]
- (c) Other activities or categories not previously identified:
 - (1) One (1) paint booth, identified as CO5, used for machine part maintenance coating operations, with a maximum throughput rate of 120 metal units per hour, utilizing dry filters for particulate control, exhausting inside the building or through stack No. S-CO5. [326 IAC 6-3-2]

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

Emission Limitations and Standards [326 IAC 2-7-5(1)]

D.5.1 Particulate Matter (PM) [326 IAC 6-2]

Pursuant to 326 IAC 6-2-4(a) (Particulate Emission Limitations for Sources of Indirect Heating), for Q less than 10 MMBtu per hour, the pounds of PM emitted per million Btu heat input shall not exceed 0.6 pound per MMBtu. Therefore, PM emissions from each of the boilers, identified as P40 and P41, shall not exceed 0.6 pound per MMBtu heat input.

D.5.2 Volatile Organic Compounds (VOC) [326 IAC 8-3-2]

Pursuant to 326 IAC 8-3-2 (Cold Cleaner Operations), for cold cleaning operations constructed after January 1, 1980, the Permittee shall:

- (a) Equip the cleaner with a cover;
- (b) Equip the cleaner with a facility for draining cleaned parts;
- (c) Close the degreaser cover whenever parts are not being handled in the cleaner;
- (d) Drain cleaned parts for at least fifteen (15) seconds or until dripping ceases;
- (e) Provide a permanent, conspicuous label summarizing the operation requirements;
- (f) Store waste solvent only in covered containers and not dispose of waste solvent or transfer it to another party, in such a manner that greater than twenty percent (20%) of the waste solvent (by weight) can evaporate into the atmosphere.

D.5.3 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for the one (1) paint booth and its control device.

D.5.4 Particulate [326 IAC 6-3-2(d)]

Pursuant to 326 IAC 6-3-2(d), particulate from the one (1) paint booth, identified as # CO5, shall be controlled by a dry particulate filter, and the Permittee shall operate the control device in accordance with manufacturer's specifications.

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY**

**PART 70 OPERATING PERMIT
CERTIFICATION**

Source Name: INTAT Precision Inc.
Source Address: State Road 3 North, Rushville, Indiana 46173
Mailing Address: P.O. Box 488, Rushville, Indiana 46173
Part 70 Permit No.: T139-17898-00011

This certification shall be included when submitting monitoring, testing reports/results or other documents as required by this permit.

Please check what document is being certified:

- Annual Compliance Certification Letter
- Test Result (specify)
- Report (specify)
- Notification (specify)
- Affidavit (specify)
- Other (specify)

I certify that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.

Signature:

Printed Name:

Title/Position:

Phone:

Date:

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE BRANCH
100 North Senate Avenue
Indianapolis, Indiana 46204-2251
Phone: 317-233-5674
Fax: 317-233-5967

PART 70 OPERATING PERMIT
EMERGENCY OCCURRENCE REPORT

Source Name: INTAT Precision Inc.
Source Address: State Road 3 North, Rushville, Indiana 46173
Mailing Address: P.O. Box 488, Rushville, Indiana 46173
Part 70 Permit No.: T139-17898-00011

This form consists of 2 pages

Page 1 of 2

- | |
|--|
| <input type="checkbox"/> This is an emergency as defined in 326 IAC 2-7-1(12) |
| C The Permittee must notify the Office of Air Quality (OAQ), within four (4) business hours (1-800-451-6027 or 317-233-5674, ask for Compliance Section); and |
| C The Permittee must submit notice in writing or by facsimile within two (2) working days (Facsimile Number: 317-233-5967), and follow the other requirements of 326 IAC 2-7-16. |

If any of the following are not applicable, mark N/A

Facility/Equipment/Operation:

Control Equipment:

Permit Condition or Operation Limitation in Permit:

Description of the Emergency:

Describe the cause of the Emergency:

If any of the following are not applicable, mark N/A

Page 2 of 2

Date/Time Emergency started:
Date/Time Emergency was corrected:
Was the facility being properly operated at the time of the emergency? Y N Describe:
Type of Pollutants Emitted: TSP, PM-10, SO ₂ , VOC, NO _x , CO, Pb, other:
Estimated amount of pollutant(s) emitted during emergency:
Describe the steps taken to mitigate the problem:
Describe the corrective actions/response steps taken:
Describe the measures taken to minimize emissions:
If applicable, describe the reasons why continued operation of the facilities are necessary to prevent imminent injury to persons, severe damage to equipment, substantial loss of capital investment, or loss of product or raw materials of substantial economic value:

Form Completed by:

Title / Position:

Date:

Phone:

A certification is not required for this report.

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF AIR QUALITY
 COMPLIANCE DATA SECTION**

Part 70 Quarterly Report

Source Name: INTAT Precision Inc.
 Source Address: State Road 3 North, Rushville, Indiana 46173
 Mailing Address: P.O. Box 488, Rushville, Indiana 46173
 Part 70 Permit No.: T139-17898-00011
 Facility: core machines P4, P5, P6
 Parameter: VOC emissions
 Limit: The total resin usage for core machines P4, P5, and P6, all constructed in 1988, shall not exceed 263,150 pounds of resin per 12 consecutive month period. The total amine gas catalyst usage for core machines P4, P5, and P6 shall not exceed 36,841 pounds of amine gas catalyst per 12 consecutive month period.

YEAR:

Month	Core Machine ID	Column 1		Column 2		Column 1 + Column 2	
		Resin Usage This Month (lbs)	Amine gas Catalyst Usage This Month (lbs)	Resin Usage for Previous 11 Months (lbs)	Amine gas Catalyst Usage for Previous 11 Months (lbs)	12 Month Total Resin Usage (lbs)	12 Month Total Amine gas Catalyst Usage (lbs)
	P4, P5, P6						
	P4, P5, P6						
	P4, P5, P6						

- No deviation occurred in this quarter.
- Deviation/s occurred in this quarter.
 Deviation has been reported on:

Submitted by:
 Title / Position:
 Signature:
 Date:
 Phone:

Attach a signed certification to complete this report.

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF AIR QUALITY
 COMPLIANCE DATA SECTION**

Part 70 Quarterly Report

Source Name: INTAT Precision Inc.
 Source Address: State Road 3 North, Rushville, Indiana 46173
 Mailing Address: P.O. Box 488, Rushville, Indiana 46173
 Part 70 Permit No.: T139-17898-00011
 Facility: Line 1 of two (2) gray iron foundry lines constructed in 1988
 Parameter: PM and PM10 emissions and VOC emissions
 Limit: The throughput of metal to each of the melting (P8 & P9), ladle (P10),inoculation (P11), pouring (P13A), cooling (P14A), shakeout operations (P16A), conveying (P17A-P22A), shotblast (P26 &P27) and Grinding (P29&P30) shall not exceed 37,023 tons per twelve (12) consecutive month period.

YEAR:

Month	Facility ID	Column 1	Column 2	Column 1 + Column 2
		Metal Throughput This Month (tons)	Metal Throughput for Previous 11 Months (tons)	12 Month Total Metal Throughput (tons)
	P8, P9			
	P10, P11			
	P13A			
	P14A			
	P16A			
	P17A - P22A			
	P26 & P27			
	P29 & P30			
	P8, P9			
	P10, P11			
	P13A			
	P14A			
	P16A			
	P17A - P22A			

Month	Facility ID	Column 1	Column 2	Column 1 + Column 2
		Metal Throughput This Month (tons)	Metal Throughput for Previous 11 Months (tons)	12 Month Total Metal Throughput (tons)
	P26 & P27			
	P29 & P30			
	P8, P9			
	P10, P11			
	P13A			
	P14A			
	P16A			
	P17A- P22A			
	P26 & P27			
	P29 & P30			

- No deviation occurred in this quarter.
- Deviation/s occurred in this quarter.
 Deviation has been reported on:

Submitted by:
 Title / Position:
 Signature:
 Date:
 Phone:

Attach a signed certification to complete this report.

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF AIR QUALITY
 COMPLIANCE DATA SECTION**

Part 70 Quarterly Report

Source Name: INTAT Precision Inc.
 Source Address: State Road 3 North, Rushville, Indiana 46173
 Mailing Address: P.O. Box 488, Rushville, Indiana 46173
 Part 70 Permit No.: T139-17898-00011
 Facility: Line 2 of two (2) gray iron foundry lines constructed in 1988
 Parameter: PM and PM10 emissions and VOC emissions
 Limit: The throughput of metal to each of the following facilities shall not exceed 61,500 tons per twelve (12) consecutive month period: melting (P8,P9), ladle (P10), inoculation (P11), pouring (P13B), cooling (P14B), shakeout (P16B), conveying (P17B -P22B), shotblasting (P40 - P42) and grinding (P29 -P30).

YEAR:

Month	Facility ID	Column 1	Column 2	Column 1 + Column 2
		Metal Throughput This Month (tons)	Metal Throughput for Previous 11 Months (tons)	12 Month Total Metal Throughput (tons)
	P8, P9			
	P10, P11			
	P13B			
	P14B			
	P16B			
	P17B - P22B			
	P40 - P42			
	P29 - P30			
	P8, P9			
	P10, P11			
	P13B			
	P14B			
	P16B			
	P17B - P22B			

Month	Facility ID	Column 1	Column 2	Column 1 + Column 2
		Metal Throughput This Month (tons)	Metal Throughput for Previous 11 Months (tons)	12 Month Total Metal Throughput (tons)
	P40 - P42			
	P29 - P30			
	P8, P9			
	P10, P11			
	P13B			
	P14B			
	P16B			
	P17B - P22B			
	P40 - P42			
	P29 - P30			

- No deviation occurred in this quarter.
- Deviation/s occurred in this quarter.
 Deviation has been reported on:

Submitted by:
 Title / Position:
 Signature:
 Date:
 Phone:

Attach a signed certification to complete this report.

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE DATA SECTION**

Part 70 Quarterly Report

Source Name: INTAT Precision Inc.
Source Address: State Road 3 North, Rushville, Indiana 46173
Mailing Address: P.O. Box 488, Rushville, Indiana 46173
Part 70 Permit No.: T139-17898-00011
Facility: Line 2 of two (2) gray iron foundry lines constructed in 1988
Parameter: PM and PM10 emissions and VOC emissions
Limit: The throughput of metal to Plant 1, Line 2 shall not exceed 5,125 tons per month during the first 12 months of operation.

YEAR:

Month	Metal throughput this month (tons)
1	
2	
3	

- No deviation occurred in this quarter.
- Deviation/s occurred in this quarter.
Deviation has been reported on:

Submitted by:
Title / Position:
Signature:
Date:
Phone:

Attach a signed certification to complete this report.

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF AIR QUALITY
 COMPLIANCE DATA SECTION**

Part 70 Quarterly Report

Source Name: INTAT Precision Inc.
 Source Address: State Road 3 North, Rushville, Indiana 46173
 Mailing Address: P.O. Box 488, Rushville, Indiana 46173
 Part 70 Permit No.: T139-17898-00011
 Facility: Two (2) gray iron foundry lines constructed in 1988
 Parameter: PM and PM10 emissions
 Limit: The throughput of sand to the sand handling operation (P32A&B-P37A&B,P39A&B) shall not exceed 777,600 tons per twelve (12) consecutive month period

YEAR:

Month	Column 1	Column 2	Column 1 + Column 2
	Sand Throughput This Month (tons)	Sand Throughput for Previous 11 Months (tons)	12 Month Total Sand Throughput (tons)

No deviation occurred in this quarter.

Deviation/s occurred in this quarter.
 Deviation has been reported on:

Submitted by:
 Title / Position:
 Signature:
 Date:
 Phone:

Attach a signed certification to complete this report.

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE DATA SECTION**

Part 70 Quarterly Report

Source Name: INTAT Precision Inc.
Source Address: State Road 3 North, Rushville, Indiana 46173
Mailing Address: P.O. Box 488, Rushville, Indiana 46173
Part 70 Permit No.: T139-17898-00011
Facility: One (1) gray iron foundry line constructed in 2004, Plant 1, Line 2
Parameter: PM and PM10 emissions
Limit: The throughput of sand to the sand handling operation (P32B- P37B, P39B) shall not exceed 215,230 tons per twelve (12) consecutive month period.

YEAR:

Month	Column 1	Column 2	Column 1 + Column 2
	Sand Throughput This Month (tons)	Sand Throughput for Previous 11 Months (tons)	12 Month Total Sand Throughput (tons)

- No deviation occurred in this quarter.
- Deviation/s occurred in this quarter.
Deviation has been reported on:

Submitted by:
Title / Position:
Signature:
Date:
Phone:

Attach a signed certification to complete this report.

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE DATA SECTION**

Part 70 Quarterly Report

Source Name: INTAT Precision Inc.
Source Address: State Road 3 North, Rushville, Indiana 46173
Mailing Address: P.O. Box 488, Rushville, Indiana 46173
Part 70 Permit No.: T139-17898-00011
Facility: Line 2 of two (2) gray iron foundry lines constructed in 1988
Parameter: PM and PM10 emissions and VOC emissions
Limit: The throughput of sand to Plant 1, Line 2 shall not exceed 17,935 tons per month during the first 12 months of operation.

YEAR:

Month	Sand throughput this month (tons)
1	
2	
3	

- No deviation occurred in this quarter.
- Deviation/s occurred in this quarter.
Deviation has been reported on:

Submitted by:
Title / Position:
Signature:
Date:
Phone:

Attach a signed certification to complete this report.

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF AIR QUALITY
 COMPLIANCE DATA SECTION**

Part 70 Quarterly Report

Source Name: INTAT Precision Inc.
 Source Address: State Road 3 North, Rushville, Indiana 46173
 Mailing Address: P.O. Box 488, Rushville, Indiana 46173
 Part 70 Permit No.: T139-17898-00011
 Facility: one (1) gray iron foundry line constructed in 1997, Plant 2.
 Parameter: PM, PM10, and manganese emissions and VOC emissions
 Limit: (a) The throughput of metal to each of the following facilities shall not exceed 70,000 tons per twelve (12) consecutive month period: melting and pouring (1000), mold/casting cooling (2000), and shakeout (3000).
 (b) The throughput of metal to each of the pouring (1000), cooling (2000), and shakeout operations (3000) shall not exceed 61,500 tons per twelve (12) consecutive month period.

YEAR:

Month	Facility ID	Column 1	Column 2	Column 1 + Column 2
		Metal Throughput This Month (tons)	Metal Throughput for Previous 11 Months (tons)	12 Month Total Metal Throughput (tons)
	1000A			
	Melting (1000)			
	Pouring (1000)			
	2000			
	3000			
	1000A			
	Melting (1000)			
	Pouring (1000)			
	2000			
	3000			
	1000A			

Month	Facility ID	Column 1	Column 2	Column 1 + Column 2
		Metal Throughput This Month (tons)	Metal Throughput for Previous 11 Months (tons)	12 Month Total Metal Throughput (tons)
	Melting (1000)			
	Pouring (1000)			
	2000			
	3000			

- No deviation occurred in this quarter.
- Deviation/s occurred in this quarter.
 Deviation has been reported on:

Submitted by:
 Title / Position:
 Signature:
 Date:
 Phone:

Attach a signed certification to complete this report.

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE DATA SECTION**

Part 70 Quarterly Report

Source Name: INTAT Precision Inc.
Source Address: State Road 3 North, Rushville, Indiana 46173
Mailing Address: P.O. Box 488, Rushville, Indiana 46173
Part 70 Permit No.: T139-17898-00011
Facility: one (1) gray iron foundry line constructed in 1997
Parameter: PM and PM10 emissions
Limit: The throughput of sand to the sand & waste sand handling operation (4000) shall not exceed 490,000 tons per twelve (12) consecutive month period.

YEAR:

Month	Column 1	Column 2	Column 1 + Column 2
	Sand & Waste Sand Throughput This Month (tons)	Sand & Waste Sand Throughput for Previous 11 Months (tons)	12 Month Total Sand & Waste Sand Throughput (tons)

No deviation occurred in this quarter.

Deviation/s occurred in this quarter.
Deviation has been reported on:

Submitted by:
Title / Position:
Signature:
Date:
Phone:

Attach a signed certification to complete this report.

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE DATA SECTION**

**PART 70 OPERATING PERMIT
QUARTERLY DEVIATION AND COMPLIANCE MONITORING REPORT**

Source Name: INTAT Precision Inc.
Source Address: State Road 3 North, Rushville, Indiana 46173
Mailing Address: P.O. Box 488, Rushville, Indiana 46173
Part 70 Permit No.: T139-17898-00011

Months: _____ to _____ Year: _____

Page 1 of 2

<p>This report shall be submitted quarterly based on a calendar year. Any deviation from the requirements, the date(s) of each deviation, the probable cause of the deviation, and the response steps taken must be reported. Deviations that are required to be reported by an applicable requirement shall be reported according to the schedule stated in the applicable requirement and do not need to be included in this report. Additional pages may be attached if necessary. If no deviations occurred, please specify in the box marked "No deviations occurred this reporting period".</p>	
<input type="checkbox"/> NO DEVIATIONS OCCURRED THIS REPORTING PERIOD.	
<input type="checkbox"/> THE FOLLOWING DEVIATIONS OCCURRED THIS REPORTING PERIOD	
Permit Requirement (specify permit condition #)	
Date of Deviation:	Duration of Deviation:
Number of Deviations:	
Probable Cause of Deviation:	
Response Steps Taken:	
Permit Requirement (specify permit condition #)	
Date of Deviation:	Duration of Deviation:
Number of Deviations:	
Probable Cause of Deviation:	
Response Steps Taken:	

Permit Requirement (specify permit condition #)	
Date of Deviation:	Duration of Deviation:
Number of Deviations:	
Probable Cause of Deviation:	
Response Steps Taken:	
Permit Requirement (specify permit condition #)	
Date of Deviation:	Duration of Deviation:
Number of Deviations:	
Probable Cause of Deviation:	
Response Steps Taken:	
Permit Requirement (specify permit condition #)	
Date of Deviation:	Duration of Deviation:
Number of Deviations:	
Probable Cause of Deviation:	
Response Steps Taken:	

Form Completed By:

Title/Position:

Date:

Phone:

Attach a signed certification to complete this report.

Indiana Department of Environmental Management Office of Air Quality

Technical Support Document (TSD) for a Part 70 Significant Permit Modification.

Source Description and Location

Source Name:	INTAT Precision, Inc.
Source Location:	2148 State Road 3 North, Rushville, Indiana 46173
County:	Rush
SIC Code:	3321
Operation Permit No.:	T 139-7531-00011
Operation Permit Issuance Date:	September 2, 2003
Significant Permit Modification No.:	139-21886-00011
Permit Reviewer:	Jenny Acker

Existing Approvals

The source was issued a Part 70 Operating Permit (139-7531-00011) on September 2, 2003. The source has since received the following approvals:

- (a) Significant Source Modification No. 139-17898-00011 issued on April 6, 2004.
- (b) Significant Permit Modification No. 139-18320-00011 issued on April 26, 2004.
- (c) Administrative Amendment No. 139-19865-00011 issued on March 4, 2005.

County Attainment Status

The source is located in Rush County.

Pollutant	Status
PM10	attainment
PM2.5	attainment
SO ₂	attainment
NO ₂	attainment
1-hour Ozone	attainment
8-hour Ozone	attainment
CO	attainment
Lead	attainment

- (a) Volatile organic compounds (VOC) and Nitrogen Oxides (NO_x) are regulated under the Clean Air Act (CAA) for the purposes of attaining and maintaining the National Ambient Air Quality Standards (NAAQS) for ozone. Therefore, VOC and NO_x emissions are considered when evaluating the rule applicability relating to ozone. Rush County has been designated as attainment or unclassifiable for ozone. Therefore, VOC and NO_x emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.
- (b) Rush County has been classified as attainment for PM_{2.5}. U.S. EPA has not yet established the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2

for PM2.5 emissions. Therefore, until the U.S.EPA adopts specific provisions for PSD review for PM2.5 emissions, it has directed states to regulate PM10 emissions as a surrogate for PM2.5 emissions.

- (c) Rush County has been classified as attainment or unclassifiable in Indiana for PM10, SO₂, NO₂, CO and Lead. Therefore, these emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.
- (d) Since this source is classified as an iron foundry, it is considered one of the twenty-eight (28) listed source categories, as specified in 326 IAC 2-2-1(gg)(1).
- (e) Fugitive Emissions
Since this type of operation is one of the twenty-eight (28) listed source categories under 326 IAC 2-2 or 326 IAC 2-3, fugitive emissions are counted toward the determination of PSD and Emission Offset applicability.

Actual Emissions

The following table shows the actual emissions from the source. This information reflects the 2003 OAQ emission data.

Pollutant	Actual Emissions (tons/year)
PM	Not reported
PM10	52
SO ₂	1
VOC	47
CO	Not reported
NO _x	0
HAP (lead)	0.2

Background and Description of Proposed Modification

The Office of Air Quality (OAQ) has reviewed modification applications, submitted by INTAT Precision, Inc. on May 10, 2005 and October 11, 2005, relating to the following modifications:

- Designate the 5 bench grinders located in Plant 2 as insignificant activities and correct the description of the control devices.
- The Cooling line identified as P14A, controlled by dust collector DC1B exhausts to 1A not stack 1B.
- The sand system operation located in Plant 1 as part of Line 2 is not controlled by the baghouse identified as BH1-6200.
- The description of the control devices and venting configuration related to the casting conveyors located in Plant 1 as part of Line 2 is not accurate.
- IDEM, OAQ has determined that the stack testing requirement for cartridge collector DC, controlling the bad heat shakeout operation, which is located in Plant 1 as part of Line 2, is not required.
- Re-evaluate the compliance determination and monitoring requirements.

Representatives of INTAT Precision, Inc. and IDEM, OAQ, met on June 29, 2005 to discuss the following modifications:

- The Part 70 Operating Permit No. 139-7531-00011, issued to INTAT Precision on September 2, 2003 describes the iron lines as gray iron lines; however, Plant 2 can only produce ductile iron. Therefore, INTAT Precision has requested the description of the iron line be modified.
- Plant 2 iron lines utilize the process of inoculation during the production of ductile iron. The inoculation process is not documented in Part 70 Operating Permit No. 139-7531-00011. Therefore, INTAT Precision has requested Section D.4 be modified to include a description of the inoculation process.

IDEM, OAQ has determined that permitting the inoculation process will require a re-evaluation of the PM, PM10, and VOC emission limits, and the material throughput limits specified under the Part 70 Operating Permit T139-7531-0001 Conditions D.4.1, D.4.2, and D.4.4. Additional information is required to be submitted by INTAT Precision, Inc. Therefore, the IDEM, OAQ will not proceed with these modifications as a part of the Significant Permit Modification No.:139-21886-00011.

INTAT Precision, Inc will submit a modification application to IDEM, OAQ, requesting the addition of the inoculation process as part of the iron lines in Plant 2 and a re-evaluation of the above mentioned limits.

Enforcement Issues

IDEM is aware that equipment has been constructed and operated prior to receipt of the proper permit. IDEM is reviewing this matter and will take the appropriate action.

Permit Level Determination – Part 70

Pursuant to 326 IAC 2-1.1-1(16), Potential to Emit is defined as “the maximum capacity of a stationary source or emission unit to emit any air pollutant under its physical and operational design. Any physical or operational limitation on the capacity of a source to emit an air pollutant, including air pollution control equipment and restrictions on hours of operation or type or amount of material combusted, stored, or processed shall be treated as part of its design if the limitation is enforceable by the U. S. EPA, IDEM, or the appropriate local air pollution control agency.”

There is not an increase in the potential to emit associated with this modification.

This modification to the Part 70 Operating Permit will be through a significant permit modification issued pursuant to 326 IAC 2-7-12 (d), because the modification requires significant changes in existing monitoring Part 70 permit terms and conditions, and requires relaxing recordkeeping permit terms and conditions.

Federal Rule Applicability Determination

There are no new federal rules applicable to the source due to this modification.

State Rule Applicability Determination

There are no new state rules applicable to the source due to this modification.

Compliance Determination and Monitoring Requirements

Permits issued under 326 IAC 2-7 are required to ensure that sources can demonstrate compliance with all applicable state and federal rules on a continuous basis. All state and federal

rules contain compliance provisions, however, these provisions do not always fulfill the requirement for a continuous demonstration. When this occurs IDEM, OAQ, in conjunction with the source, must develop specific conditions to satisfy 326 IAC 2-7-5. As a result, Compliance Determination Requirements are included in the permit. The Compliance determination requirements in Section D of the permit are those conditions that are found directly within state and federal rules and the violation of which serves as grounds for enforcement action.

If the Compliance Determination Requirements are not sufficient to demonstrate continuous compliance, they will be supplemented with Compliance Monitoring Requirements, also Section D of the permit. Unlike Compliance Determination Requirements, failure to meet Compliance Monitoring conditions would serve as a trigger for corrective actions and not grounds for enforcement action. However, a violation in relation to a compliance monitoring condition will arise through a source's failure to take the appropriate corrective actions within a specific time period.

Changes to the compliance determination and monitoring requirements are detailed in the Proposed Changes section of this document.

Proposed Changes

The changes listed below have been made to Part 70 Operating Permit No. 139-7531-00011. Deleted language appears as ~~strikethroughs~~ and new language appears in **bold**:

Change No.1:

The cooling line identified as P14A, controlled by dust collectors DC1B, will now exhaust to stack 1A instead of stack 1B. Condition A.2(c)(3) and Section D.2 have been revised as follows:

A.2 Emission Units and Pollution Control Equipment Summary [326 IAC 2-7-4(c)(3)][326 IAC 2-7-5(15)]

This stationary gray iron foundry operation consists of the following emission units and pollution control devices:

- (c)(3) One (1) cooling line identified as P14A, controlled by dust collector DC1B, exhausting to stack ~~4B~~ **1A**.

SECTION D.2

FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(15)]:

(b) through (c)(2) remain the same

- (c) Plant 1 Casting Line 1 constructed in 1988 with a capacity of 10 tons of metal and 75 tons of sand per hour, whose total capacity is further restricted by the overall melt capacity of 20 tons of metal/hour for both Lines 1 and 2, consisting of the following equipment:

- (3) One (1) cooling line identified as P14A, controlled by dust collector DC1B, exhausting to stack ~~4B~~ **1A**.

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

D.2.4 Particulate [326 IAC 6-3-2]

Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the allowable particulate emission rates from the Plant 1, Line 1 gray iron foundry line shall be limited as follows:

Unit	Stack ID	Process Weight Rate (ton per hour)	Allowable Emissions (pounds per hour)
Casting Cooling (P14A)*	4B-1A	85.0	49.67

Change No. 2:

The description of the controls for casting conveyors on Plant 1, Line 2 is inaccurate. The controls for the sand handling system are incorrect: The PM/PM10 and VOC testing requirements for the bad heat shakeout will be removed. Conditions A.2(d)(1) and (6), and D.3 have been revised as follows:

A.2 Emission Units and Pollution Control Equipment Summary [326 IAC 2-7-4(c)(3)][326 IAC 2-7-5(15)]

This stationary gray iron foundry operation consists of the following emission units and pollution control devices:

- (d)(1) One (1) sand system consisting of units identified as P32B, P33B, P34B, P35B, P36B, P37B and P39B, controlled by baghouses ~~BH1-6200~~, BH1-6300 and BH1-6400, and exhausting to stacks ~~4-6200 and~~ 1- 6300/6400 (1-6300/6400 is a single stack).
- (d)(6) Casting conveyors identified as P17B, P18B, P19B, P20B, P21B, **and** P22B, controlled by ~~cartridge collectors~~ **baghouses** ~~DC-6B~~ **DC-7**, and DC-8B, exhausting inside the building, ~~and to stacks 6B and 7 and controlled by cartridge collector DC-7 which vents inside the building~~ **baghouse DC-6B exhausting to stack 6B.**

SECTION D.3 FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(15)]:

One (1) gray iron foundry line, constructed in 1988, consisting of the following:

- (d) Plant 1, Casting Line 2 to be constructed in 2004, with a capacity of 15 tons of metal and 70 tons of sand per hour consisting of the following equipment:
 - (1) One (1) sand system consisting of units identified as P32B, P33B, P34B, P35B, P36B, P37B and P39B, controlled by baghouses ~~BH1-6200~~, BH1-6300 and BH1-6400, and exhausting to stacks ~~4-6200 and~~ 1- 6300/6400 (1-6300/6400 is a single stack).
 - (6) Casting conveyors identified as P17B, P18B, P19B, P20B, P21B, **and** P22B, controlled by ~~cartridge collectors~~ **baghouses** ~~DC-6B~~ **DC-7**, and DC-8B, exhausting inside the building, ~~and to stacks 6B and 7 and controlled by cartridge collector DC-7 which vents inside the building~~ **baghouse DC-6B exhausting to stack 6B.**

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

D.3.1 BACT for PM10

Stack No.	Process	Collector Air Flow Rate (cuft /min)	Filterable PM10 Emission Limitation (gr/dscf) / (lb/hr)	Total PM10 Emission Limitation (lb/ton) Filterable & Condensable
1-6300 & 1-6400	Sand Handling (P32B-P37B & P39B)	44,000	0.003 / 1.13	0.02
1-6200	Casting Cool (P14B), Shakeout (P16B) & Sand Handling (P32B-P37B & P39B)	111,000	0.003/ 2.85	1.045
6B	Shotblast (P40, 41, & 42) Casting Conveyors (P17B-P22B)	40,000	0.003 / 1.03	0.085

D.3.6 Testing Requirements [326 IAC 2-7-6(1),(6)] [326 IAC 2-1.1-11]

- (a) Within 60 days after achieving maximum capacity but no later than 180 days after startup, in order to demonstrate compliance with Conditions D.3.1 and D.3.2, D.3.3 the Permittee shall perform PM and PM10 testing (for both filterable and condensible PM10) for the following facilities utilizing methods as approved by the Commissioner.
- (3) the ~~baghouse cartridge collectors~~ DC-6B and the **cartridge collector** DC-8B controlling the casting conveyor and the shotblast system, exhausting to stack 6B.

D.3.6 Testing Requirements [326 IAC 2-7-6(1),(6)] [326 IAC 2-1.1-11]

- (a) Within 60 days after achieving maximum capacity but no later than 180 days after startup, in order to demonstrate compliance with Conditions D.3.1 and D.3.2, D.3.3 the Permittee shall perform PM and PM10 testing (for both filterable and condensible PM10) for the following facilities utilizing methods as approved by the Commissioner.
- (3) the ~~baghouse cartridge collectors~~ DC-6B and the **cartridge collector** DC-8B controlling the casting conveyor and the shotblast system, exhausting to stack 6B.
- (5) ~~the cartridge collector DC5, controlling the bad heat shakeout operation exhausting to stack 5.~~
- (b) Within 60 days after achieving maximum capacity but no later than 180 days after startup of the Line 2 modifications, in order to demonstrate compliance with Condition D.3.4, the Permittee shall perform VOC testing for the pouring (P13B), cooling (P14B), and the shakeout (P16B), ~~and the bad heat shakeout operations exhausting to stacks 3B, 5 and 1-6200~~ utilizing methods as approved by the Commissioner.

Change No. 3:

Grinders from the Finishing Operations meet the criteria of Insignificant Activities. These operations will be removed from Section A.2 (Emission Units and Pollution Control Equipment Summary) and

placed in Section A.3 (Insignificant Activities) of the Part 70 Operating Permit (139-7531-00011). Additionally, the control devices for the grinders have been revised. Conditions A.2(e)(6) A.3(i), and Section and D.4 have been revised as follows:

**A.2 Emission Units and Pollution Control Equipment Summary [326 IAC 2-7-4(c)(3)]
 [326 IAC 2-7-5(15)]**

This stationary gray iron foundry operation consists of the following emission units and pollution control devices:

- (e)(6) One (1) finishing operation, identified as ID # 8000, with a maximum capacity of 5.5 tons of metal per hour, consisting of trim presses, uncontrolled. ~~and six (6) bench grinders, utilizing fabric filters (FFA, FFB, and FFC) for control.~~

A.3 Insignificant Activities [326 IAC 2-7-1(21)] [326 IAC 2-7-4(c)][326 IAC 2-7-5(15)]

This stationary source also includes the following insignificant activities, as defined in 326 IAC 2-7-1(21):

- (i) Grinding and machining operations controlled with fabric filters, scrubbers, mist collectors, wet collectors, and electrostatic precipitators with design grain loading of less than or equal to 0.03 grains per actual cubic foot and a gas flow rate less than or equal to 4000 actual cubic feet per minute, including the following: deburring; buffing; polishing; abrasive blasting; pneumatic conveying; and woodworking operations ~~[326 IAC 6-3-2]~~; **including the following specifically regulated grinders:**

- (1) **Six (6) bench grinders, identified as ID #8000, with maximum capacity of 5.5 tons of metal per hour, utilizing fabric filters (FFA, FFB, FFC, FFD, and FFE) for control; four (4) grinders each controlled by one fabric filter, and two (2) grinders controlled by one (1) fabric filter. [326 IAC 6-3-2]**

SECTION D.4 FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(15)]:

- (e) (6) One (1) finishing operation, identified as ID # 8000, with a maximum capacity of 5.5 tons of metal per hour, consisting of trim presses, uncontrolled. ~~and six (6) bench grinders, utilizing fabric filters (FFA, FFB, and FFC) for control.~~

Insignificant Activities:

- (i)(1) **Six (6) bench grinders, identified as ID #8000, with maximum capacity of 5.5 tons of metal per hour, utilizing fabric filters (FFA, FFB, FFC, FFD, and FFE) for control; four (4) grinders each controlled by one fabric filter, and two (2) grinders controlled by one (1) fabric filter. [326 IAC 6-3-2]**

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

D.4.3 Particulate [326 IAC 6-3-2]

Unit	Stack ID	Process Weight Rate (ton per hour)	Allowable Emissions (pounds per hour)
Grinding/Cleaning (8000)	FFA, FFB, FFC	5.50	12.85

	N/A		
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D.4.7 Testing Requirements [326 IAC 2-7-6(1),(6)] [326 IAC 2-1.1-11]

-
- (a) (6) ~~the baghouse controlling the grinding/cleaning operation (8000) exhausting to stacks FFA, FFB, and FFC. one dust collector controlling two (2) grinders, exhausting to room.~~

Change No. 4:

The mailing address of IDEM, Office of Air Quality (OAQ) has changed. All references in the permit to "100 North Senate Ave, Post Office Box 6015, Indianapolis, Indiana 46206-6015" have been changed to "100 North Senate Ave, Indianapolis, Indiana 46204-2251".

Change No. 5:

IDEM has determined that the Permittee is not required to keep records of all preventive maintenance. However, where the Permittee seeks to demonstrate that an emergency has occurred, the Permittee must provide, upon request, records of preventive maintenance in order to establish that the lack of proper maintenance did not cause or contribute to the deviation. Therefore, IDEM has deleted paragraph (b) of Section B – Preventive Maintenance, and has amended the Section B – Emergency Provisions condition as follows:

B.10 Preventive Maintenance Plan [326 IAC 2-7-5(1),(3) and (13)] [326 IAC 2-7-6(1) and (6)] [326 IAC 1-6-3]

-
- (a) remain the same
- ~~(b) The Permittee shall implement the PMPs, including any required record keeping, necessary to ensure that failure to implement a PMP does not cause or contribute to an exceedance of any limitation on emissions or potential to emit.~~
- (e b)** A copy of the PMPs shall be submitted to IDEM, OAQ, upon request and within a reasonable time, and shall be subject to review and approval by IDEM, OAQ, DEM, OAQ, may require the Permittee to revise its PMPs whenever lack of proper maintenance causes or is the primary contributor to an exceedance of any limitation on emissions or potential to emit. The PMP does not require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).
- (d c)** To the extent the Permittee is required by 40 CFR Part 60/63 to have an Operation, Maintenance, and Monitoring (OMM) Plan for a unit, such Plan is deemed to satisfy the PMP requirements of 326 IAC 1-6-3 for that unit.

B.11 Emergency Provisions [326 IAC 2-7-16]

-
- (a), (b), (b)(1) to (b)(4) remain the same
- (b) (5) For each emergency lasting one (1) hour or more, the Permittee submitted the attached Emergency Occurrence Report Form or its equivalent, either by mail or facsimile to:

Indiana Department of Environmental Management
Compliance Branch, Office of Air Quality
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015 **46204-2251**

within two (2) working days of the time when emission limitations were exceeded due to the emergency.

The notice fulfills the requirement of 326 IAC 2-7-5(3)(C)(ii) and must contain the following:

- (A) A description of the emergency;
- (B) Any steps taken to mitigate the emissions; and
- (C) Corrective actions taken.

The notification which shall be submitted by the Permittee does not require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

- (6) The Permittee immediately took all reasonable steps to correct the emergency.

(c) and (d) remain the same

- (e) **The Permittee seeking to establish the occurrence of an emergency shall make records available upon request to ensure that failure to implement a PMP did not cause or contribute to an exceedance of any limitations on emissions. However, IDEM, OAQ, may require that the Preventive Maintenance Plans required under 326 IAC 2-7-4(c)(9) be revised in response to an emergency.**

(f) through (h) remain the same

Change No. 6:

IDEM has clarified the Section B Operational Flexibility condition as follows:

B.19 Operational Flexibility [326 IAC 2-7-20] [326 IAC 2-7-10.5]

- (a) The Permittee may make any change or changes at the source that are described in 326 IAC 2-7-20(b), (c), or (e), without a prior permit revision, if each of the following conditions is met:
 - (1) The changes are not modifications under any provision of Title I of the Clean Air Act;
 - (2) Any preconstruction approval required by 326 IAC 2-7-10.5 has been obtained;
 - (3) The changes do not result in emissions which exceed the ~~emissions allowable under~~ **limitations provided in** this permit (whether expressed herein as a rate of emissions or in terms of total emissions);
 - (4) The Permittee notifies the:

Indiana Department of Environmental Management
Permits Branch, Office of Air Quality
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana ~~46206-6015~~ **46204-2251**

and

United States Environmental Protection Agency, Region V
Air and Radiation Division, Regulation Development Branch - Indiana (AR-18J)
77 West Jackson Boulevard

Chicago, Illinois 60604-3590

in advance of the change by written notification at least ten (10) days in advance of the proposed change. The Permittee shall attach every such notice to the Permittee's copy of this permit; and

- (5) The Permittee maintains records, **on-site on a rolling five (5) year basis**, which document, ~~on a rolling five (5) year basis~~, all such changes and emissions trading **trades** that are subject to 326 IAC 2-7-20(b), (c), or (e). ~~and makes~~ **The Permittee shall make** such records available, upon reasonable request, for public review.

Such records shall consist of all information required to be submitted to IDEM, OAQ, in the notices specified in 326 IAC 2-7-20(b)(1), (c)(1), and (e)(2).

- (b) Remains the same
- (c) Emission Trades [326 IAC 2-7-20(c)]
The Permittee may trade **emission** increases and decreases ~~in emissions in~~ at the source, where the applicable SIP provides for such emission trades without requiring a permit revision, subject to the constraints of Section (a) of this condition and those in 326 IAC 2-7-20(c).

Change No. 7:

Indiana was required to incorporate credible evidence provisions into state rules consistent with the SIP call published by U.S. EPA in 1997 (62 FR 8314). Indiana has incorporated the credible evidence provision in 326 IAC 1-1-6. This rule is effective March 16, 2005; therefore, the condition reflecting this rule will be incorporated into your permit as follows:

B.24 Credible Evidence [326 IAC 2-7-5(3)][326 IAC 2-7-6][62 FR 8314] [326 IAC 1-1-6]

For the purpose of submitting compliance certifications or establishing whether or not the Permittee has violated or is in violation of any condition of this permit, nothing in this permit shall preclude the use, including the exclusive use, of any credible evidence or information relevant to whether the Permittee would have been in compliance with the condition of this permit if the appropriate performance or compliance test or procedure had been performed.

Change No. 8:

IDEM realizes that these specifications can only be practically applied to analog units, and has therefore clarified the condition to state that the condition only applies to analog units. Upon further review, IDEM has also determined that the accuracy of the instruments is not nearly as important as whether the instrument has a range that is appropriate for the normal expected reading of the parameter. Therefore, the accuracy requirements have been removed from the condition. Condition C.13 has been modified and references to C.13 have been updated.

C.1312 Pressure Gauge and Other Instrument Specifications [326 IAC 2-1.1-11] [326 IAC 2-7-5(3)] [326 IAC 2-7-6(1)]

- (a) ~~Whenever a condition in this permit requires the measurement of pressure drop across any part of the unit or its control device, the gauge employed~~ **When required by any condition of this permit, an analog instrument used to measure a parameter related to the operation of an air pollution control device** shall have a scale such that the expected ~~normal~~ **maximum reading for the normal range** shall be no less than twenty

percent (20%) of full scale and be accurate within plus or minus two percent (2%) of full scale reading.

- (b) ~~Whenever a condition in this permit requires the measurement of a (temperature or flow rate), the instrument employed shall have a scale such that the expected normal reading shall be no less than twenty percent (20%) of full scale and be accurate within plus or minus two percent (2%) of full scale reading.~~
- (c) ~~The Preventive Maintenance Plan for the pH meter shall include calibration using known standards. The frequency of calibration shall be adjusted such that the typical error found at calibration is less than one pH point.~~
- (d b) The Permittee may request **that** the IDEM, OAQ approve the use of a pressure gauge or ~~other~~ **an** instrument that does not meet the above specifications provided the Permittee can demonstrate **that** an alternative pressure gauge or ~~other~~ instrument specification will adequately ensure compliance with permit conditions requiring the measurement of pressure drop or ~~other~~ the parameters.

Change No. 9:

IDEM has reconsidered the requirement to develop and follow a Compliance Response Plan. The Permittee will still be required to take reasonable response steps when a compliance monitoring parameter is determined to be out of range or abnormal. Replacing the requirement to develop and follow a Compliance Response Plan with a requirement to take reasonable response steps will ensure that the control equipment is returned to proper operation as soon as practicable, while still allowing the Permittee the flexibility to respond to situations that were not anticipated. The D Section conditions that refer to this condition have been revised to reflect the new condition title, and the following changes have been made to the Section C condition.

C.1615 Compliance Response Plan – Preparation, Implementation, Records, and Reports **Response to Excursions or Exceedances** [326 IAC 2-7-5] [326 IAC 2-7-6]

- (a) ~~The Permittee is required to prepare a Compliance Response Plan (CRP) for each compliance monitoring condition of this permit. If a Permittee is required to have an Operation, Maintenance and Monitoring (OMM) Plan (or Parametric Monitoring Plan and Start-up, Shutdown, and Malfunction (SSM) Plan) under 40 CFR 60/63, such plans shall be deemed to satisfy the requirements for a CPR for those compliance monitoring conditions. A CRP shall be submitted to IDEM, OAQ upon request. The CRP shall be prepared within ninety (90) days after issuance of this permit by the Permittee, supplemented from time to time by the Permittee, maintained on-site, and comprised of:~~
 - (1) ~~Reasonable response steps that may be implemented in the event that a response step is needed pursuant to the requirements of Section D of this permit; and an expected timeframe for taking reasonable response steps.~~
 - (2) ~~If, at any time, the Permittee takes reasonable response steps that are not set forth in the Permittee's current Compliance Response Plan or Operation, Maintenance and Monitoring (OMM) Plan (or Parametric Monitoring Plan and Start-up, Shutdown, and Malfunction (SSM) Plan) and the Permittee documents such response in accordance with subsection (e) below, the Permittee shall amend its Compliance Response Plan to include such response steps taken.~~

~~The OMM) Plan (or Parametric Monitoring and SMM Plan) shall be submitted within the time frames specified by the applicable 40 CFR60/63 requirements.~~

- (b) ~~For each compliance monitoring condition of this permit, reasonable response steps shall be taken when indicated by the provisions of that compliance monitoring condition as follows:~~
- (1) ~~Reasonable response steps shall be taken as set forth in the Permittee's current Compliance Response Plan or Operation, Maintenance and Monitoring (OMM) Plan (or Parametric Monitoring Plan and Start-up, Shutdown, and Malfunction (SSM) Plan); or~~
 - (2) ~~If none of the reasonable response steps listed in the Compliance Response Plan or Operation, Maintenance and Monitoring (OMM) Plan (or Parametric Monitoring Plan and Start-up, Shutdown, and Malfunction (SSM) Plan) is applicable or responsive to the excursion, the Permittee shall devise and implement additional response steps as expeditiously as practical. Taking such additional response steps shall not be considered a deviation from this permit so long as the Permittee documents such response steps in accordance with this condition.~~
 - (3) ~~If the Permittee determines that additional response steps would necessitate that the emissions unit or control device be shut down, the IDEM, OAQ shall be promptly notified of the expected date of the shut down, the status of the applicable compliance monitoring parameter with respect to normal, and the results of the actions taken up to the time of notification.~~
 - (4) ~~Failure to take reasonable response steps shall be considered a deviation from the permit.~~
- (c) ~~The Permittee is not required to take any further response steps for any of the following reasons:~~
- (1) ~~A false reading occurs due to the malfunction of the monitoring equipment and prompt action was taken to correct the monitoring equipment.~~
 - (2) ~~The Permittee has determined that the compliance monitoring parameters established in the permit conditions are technically inappropriate, has previously submitted a request for a minor permit modification to the permit, and such request has not been denied.~~
 - (3) ~~An automatic measurement was taken when the process was not operating.~~
 - (4) ~~The process has already returned or is returning to operating within Anormal" parameters and no response steps are required.~~
- (d) ~~When implementing reasonable steps in response to a compliance monitoring condition, if the Permittee determines that an exceedance of an emission limitation has occurred, the Permittee shall report such deviations pursuant to Section B-Deviations from Permit Requirements and Conditions.~~
- (e) ~~The Permittee shall record all instances when, in accordance with Section D, response steps are taken. In the event of an emergency, the provisions of 326-IAC 2-7-16 (Emergency Provisions) requiring prompt corrective action to mitigate emissions shall prevail.~~
- (f) ~~Except as otherwise provided by a rule or provided specifically in Section D, all monitoring as required in Section D shall be performed when the emission unit is operating, except for time necessary to perform quality assurance and maintenance activities.~~

- (a) Upon detecting an excursion or exceedance, the Permittee shall restore operation of the emissions unit (including any control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions.**
- (b) The response shall include minimizing the period of any startup, shutdown or malfunction and taking any necessary corrective actions to restore normal operation and prevent the likely recurrence of the cause of an excursion or exceedance (other than those caused by excused startup or shutdown conditions). Corrective actions may include, but are not limited to, the following:**
 - (1) initial inspection and evaluation;**
 - (2) recording that operations returned to normal without operator action (such as through response by a computerized distribution control system); or**
 - (3) any necessary follow-up actions to return operation to within the indicator range, designated condition, or below the applicable emission limitation or standard, as applicable.**
- (c) A determination of whether the Permittee has used acceptable procedures in response to an excursion or exceedance will be based on information available, which may include, but is not limited to, the following:**
 - (1) monitoring results;**
 - (2) review of operation and maintenance procedures and records;**
 - (3) inspection of the control device, associated capture system, and the process.**
- (d) Failure to take reasonable response steps shall be considered a deviation from the permit.**
- (e) The Permittee shall maintain the following records:**
 - (1) monitoring data;**
 - (2) monitor performance data, if applicable; and**
 - (3) corrective actions taken.**

Change No. 10:

In order to reflect New Source Review (NSR) reform provisions at the major sources, the record keeping and reporting requirements condition has been modified as follows:

C.18 General Record Keeping Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-6] **[326 IAC 2-2]**

(a) and (b) remain the same

- (c) If there is a reasonable possibility that a “project” (as defined in 326 IAC 2-2-1 (qq)) at an existing emissions unit, other than projects at a Clean Unit, which is not part of a “major modification” (as defined in 326 IAC 2-2-1 (ee)) may result in significant emissions increase and the Permittee elects to utilize the “projected actual**

emissions” (as defined in 326 IAC 2-2-1 (rr)), the Permittee shall comply with following:

- (1) Before beginning actual construction of the “project” (as defined in 326 IAC 2-2-1 (qq) at an existing emissions unit, document and maintain the following records:**
 - (A) A description of the project.**
 - (B) Identification of any emissions unit whose emissions of a regulated new source review pollutant could be affected by the project.**
 - (C) A description of the applicability test used to determine that the project is not a major modification for any regulated NSR pollutant, including:**
 - (i) Baseline actual emissions;**
 - (ii) Projected actual emissions;**
 - (iii) Amount of emissions excluded under section 326 IAC 2-2-1(rr)(2)(A)(iii); and**
 - (iv) An explanation for why the amount was excluded, and any netting calculations, if applicable.**
- (2) Monitor the emissions of any regulated NSR pollutant that could increase as a result of the project and that is emitted by any existing emissions unit identified in (1)(B) above; and**
- (3) Calculate and maintain a record of the annual emissions, in tons per year on a calendar year basis, for a period of five (5) years following resumption of regular operations after the change, or for a period of ten (10) years following resumption of regular operations after the change if the project increases the design capacity of or the potential to emit that regulated NSR pollutant at the emissions unit.**

Change No. 11:

Upon further review, IDEM has determined that it is the Permittee’s responsibility to include routine control device inspection requirements in the applicable preventive maintenance plan. Since the Permittee is in the best position to determine the appropriate frequency of control device inspections and the details regarding which components of the control device should be inspected, the conditions requiring control device inspections have been removed from the permit. In addition, the requirement to keep records of the inspections have been removed. The following conditions have been removed from the permit:

~~D.1.8 Cartridge Collector and Baghouse Inspections~~

~~An inspection shall be performed each calendar quarter of all cartridges and baghouses controlling the coremaking operation when venting to the atmosphere. Inspections required by this condition shall not be performed in consecutive months. All defective cartridges shall be replaced.~~

~~D.1.409 Record Keeping Requirements~~

- ~~(e) To document compliance with Condition D.1.8, the Permittee shall maintain records of the results of the inspections required under Condition D.1.8.~~
- ~~(f) To document compliance with Condition D.1.4, the Permittee shall maintain records of any additional inspections prescribed by the Preventive Maintenance Plan.~~

~~D.2.11 Baghouse and Cartridge Collector Inspections~~

~~An inspection shall be performed each calendar quarter of all baghouses and cartridges controlling the melting, ladle heating, inoculation, pouring, cooling, shakeout, conveying,~~

~~shotblasting, grinding, and sand handling processes when venting to the atmosphere. Inspections required by this condition shall not be performed in consecutive months. All defective cartridges shall be replaced.~~

D.2.1312 Record Keeping Requirements

- ~~(d) To document compliance with Condition D.2.11, the Permittee shall maintain records of the results of the inspections required under Condition D.2.11.~~
- ~~(e) To document compliance with Condition D.2.6, the Permittee shall maintain records of any additional inspections prescribed by the Preventive Maintenance Plan.~~

D.3.10 Baghouse and Cartridge Collector Inspections

~~An inspection shall be performed each calendar quarter of all baghouses and cartridges controlling the pouring, cooling, shakeout, conveying, shotblasting and sand handling processes when venting to the atmosphere. Inspections required by this condition shall not be performed in consecutive months. All defective bags shall be replaced.~~

D.3.1211 Record Keeping Requirements

- ~~(b) To document compliance with Condition D.3.5, the Permittee shall maintain records of any additional inspections prescribed by the Preventative Maintenance Plan.~~
- ~~(d) To document compliance with Condition D.3.10, the Permittee shall maintain records of the results of the inspections required under Condition D.3.10.~~

D.4.11 Baghouse and Cartridge Collector Inspections

~~An inspection shall be performed each calendar quarter of all baghouses and cartridges controlling the melting, pouring, cooling, shakeout, sand handling, waste sand handling, and grinding/cleaning processes when venting to the atmosphere. A baghouse inspection shall be performed within three months of redirecting vents to the atmosphere and every three months thereafter. Inspections are optional when venting to the indoors. Inspections required by this condition shall not be performed in consecutive months. All defective bags shall be replaced.~~

D.4.1312 Record Keeping Requirements

- ~~(c) To document compliance with Condition D.4.11, the Permittee shall maintain records of the results of the inspections required under Condition D.4.11.~~
- ~~(d) To document compliance with Condition D.4.6, the Permittee shall maintain records of any additional inspections prescribed by the Preventative Maintenance Plan.~~

Change No. 12:

Upon further review, IDEM has determined that once per day monitoring of the visible emission notations is generally sufficient to ensure proper operation of the control device. IDEM has also determined that monitoring these parameters once per day is sufficient to satisfy the requirements of the Part 70 rules at 326 IAC 2-7-5 and 326 IAC 2-7-6. Therefore, the conditions in the D sections requiring once per shift monitoring and recordkeeping of visible emission notation have been changed to once per day monitoring and recordkeeping of visible emission notations as follows:

D.1.6 Visible Emissions Notations

- (a) Visible emission notations of the stack exhaust for the cartridge collector controlling the coremaking operation shall be performed once per ~~shift~~ **day** during normal daylight operations when exhausting to the atmosphere. A trained employee shall record whether emissions are normal or abnormal.

- (e) ~~The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when an~~ **If abnormal emissions is are observed, the Permittee shall take reasonable steps in accordance with Section C - Response to Excursions or Exceedances.** Failure to take response steps in accordance with Section C - ~~Compliance Response Plan – Preparation, Implementation, Records, and Reports~~ **Response to Excursions or Exceedances**, shall be considered a ~~violation of deviation~~ **from this permit.**

D.2.9 Visible Emissions Notations

- (a) Visible emission notations of the charge handling operation and the stack exhausts for the melting, ladle heating, inoculation, pouring, cooling, shakeout, conveying, shotblasting, grinding, and sand handling processes shall be performed once per **shift day** during normal daylight operations when exhausting to the atmosphere. A trained employee shall record whether emissions are normal or abnormal.
- (e) ~~The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when an~~ **If abnormal emission is are observed, the Permittee shall take reasonable steps in accordance with Section C - Response to Excursions or Exceedances.** Failure to take response steps in accordance with Section C - ~~Compliance Response Plan – Preparation, Implementation, Records, and Reports~~ **Response to Excursions or Exceedances**, shall be considered a ~~violation of deviation~~ **from this permit.**

D.2.1312 Record Keeping Requirements

- (b) To document compliance with Condition D.2.9, the Permittee shall maintain records of visible emission notations of the charge handling operation and the stack exhausts for the melting, inoculation, pouring, cooling, shakeout, conveying, shotblasting, grinding, and sand handling processes once per **shift day**.

D.3.8 Visible Emissions Notations

- (a) Visible emission notations of the stack exhausts for the pouring, cooling, shakeout, conveying, shotblasting bad heat shakeout and sand handling processes shall be performed once per **shift day** during normal daylight operations when exhausting to the atmosphere. A trained employee shall record whether emissions are normal or abnormal.
- (e) ~~The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when an~~ **If abnormal emissions is are observed, the Permittee shall take reasonable steps in accordance with Section C - Response to Excursions or Exceedances.** Failure to take response steps in accordance with Section C - ~~Compliance Response Plan – Preparation, Implementation, Records, and Reports~~ **Response to Excursions or Exceedances**, shall be considered a ~~violation of deviation~~ **from this permit.**

D.3.1211 Record Keeping Requirements

- (e c) To document compliance with Condition D.3.8, the Permittee shall maintain records of visible emission notations of the charge handling operation and the stack exhausts for the melting, inoculation, pouring, cooling, shakeout, conveying, shotblasting and sand handling processes taken once per **shift day**.

D.4.9 Visible Emissions Notations

- (a) Visible emission notations of the charge handling operation and the stack exhausts for the melting, pouring, cooling, shakeout, sand handling, waste sand handling, and grinding/cleaning processes shall be performed once per **shift day** during normal daylight operations when exhausting to the atmosphere. A trained employee shall record whether emissions are normal or abnormal.

- (e) ~~The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when an~~ **If abnormal emissions are observed, the Permittee shall take reasonable steps in accordance with Section C - Response to Excursions or Exceedances.** Failure to take response steps in accordance with Section C - ~~Compliance Response Plan - Preparation, Implementation, Records, and Reports~~ **Response to Excursions or Exceedances**, shall be considered a ~~violation of~~ **deviation from** this permit.

D.4.1312 Record Keeping Requirements

- (a) To document compliance with Condition D.4.9, the Permittee shall maintain records of visible emission notations of the charge handling operation and the stack exhausts for the melting, pouring, cooling, shakeout, conveying, shotblasting and sand handling, processes taken once per ~~shift~~ **day**.

Change No. 13:

Upon further review, IDEM has determined that once per day monitoring of the control device is generally sufficient to ensure proper operation of the control device. IDEM has also determined that monitoring these parameters once per day is sufficient to satisfy the requirements of the Part 70 rules at 326 IAC 2-7-5 and 326 IAC 2-7-6. Therefore the conditions in the D sections requiring once per shift monitoring and recordkeeping the control device have been changed to once per day monitoring and recordkeeping the control device as follows:

D.1.7 Parametric Monitoring

The Permittee shall record the ~~total static~~ pressure drop across the cartridge collector used in conjunction with the coremaking operation, at least once per ~~shift~~ **day** when the coremaking process is in operation when venting to the atmosphere. When for any one reading, the pressure drop across the cartridge collector is outside the normal range of 1.0 and 6.0 inches of water or a range established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C- ~~Compliance Response Plan - Preparation, Implementation, Records, and Reports~~ **Response to Excursions or Exceedances**. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps in accordance with Section C -~~Compliance Response Plan - Preparation, Implementation, Records, and Reports~~ **Response to Excursions or Exceedances**, shall be considered a ~~violation of~~ **deviation from** this permit.

The instrument used for determining the pressure shall comply with Section C - ~~Pressure Gauge and Other~~ Instrument Specifications, of this permit, shall be subject to approval by IDEM, OAQ, and shall be calibrated at least once every six (6) months.

D.1.409 Record Keeping Requirements

- (d) To document compliance with Condition D.1.7, the Permittee shall maintain once per ~~shift~~ **day** records of the ~~total static~~ pressure drop during normal operation when venting to the atmosphere.

D.2.10 Parametric Monitoring

The Permittee shall record the ~~total static~~ pressure drop across each of the baghouses and cartridge collectors used in conjunction with the melting, ladle heating, inoculation, pouring, cooling, shakeout, conveying, shotblasting, grinding, and sand handling processes, at least once per ~~shift~~ **day** when the melting, inoculation, pouring, cooling, shakeout, conveying, shotblasting, grinding, and sand handling processes are in operation when venting to the atmosphere. When for any one reading, the pressure drop across any of the cartridge collectors is outside the normal range of 1.0 and 6.0 inches of water or a range established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C- ~~Compliance Response Plan - Preparation, Implementation, Records, and Reports~~ **Response to Excursions**

or Exceedances. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps in accordance with Section C - ~~Compliance Response Plan - Preparation, Implementation, Records, and Reports~~ **Response to Excursions or Exceedances**, shall be considered a deviation from this permit.

The instrument used for determining the pressure shall comply with Section C - ~~Pressure Gauge and Other Instrument Specifications~~, of this permit, shall be subject to approval by IDEM, OAQ, and shall be calibrated at least once every six (6) months.

D.2.1312 Record Keeping Requirements

- (c) To document compliance with Condition D.2.10, the Permittee shall maintain once per **shift day** records of the ~~total static~~ pressure drop during normal operation when venting to the atmosphere.

D.3.9 Parametric Monitoring

The Permittee shall record the ~~total static~~ pressure drop across each of the baghouses and cartridge collectors used in conjunction with the pouring, cooling, shakeout, conveying, shotblasting and sand handling processes, at least once per **shift day** when the pouring, cooling, shakeout, conveying, shotblasting and sand handling processes are in operation when venting to the atmosphere. When for any one reading, the pressure drop across any of the baghouses is outside the normal range of 1.0 and 6.0 inches of water or a range established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C - ~~Compliance Response Plan - Preparation, Implementation, Records, and Reports~~ **Response to Excursions or Exceedances**. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps in accordance with Section C - ~~Compliance Response Plan - Preparation, Implementation, Records, and Reports~~ **Response to Excursions or Exceedances**, shall be considered a deviation from this permit.

The instrument used for determining the pressure shall comply with Section C - ~~Pressure Gauge and Other Instrument Specifications~~, of this permit, shall be subject to approval by IDEM, OAQ, and shall be calibrated at least once every six (6) months.

D.3.1211 Record Keeping Requirements

- (e b) To document compliance with Condition D.3.9, the Permittee shall maintain once per **shift day** records of the ~~static~~ pressure drop during normal operation when venting to the atmosphere.

D.4.10 Parametric Monitoring

The Permittee shall record the ~~total static~~ pressure drop across each of the baghouses used in conjunction with the melting, pouring, cooling, shakeout, sand handling, waste sand handling, and grinding/cleaning processes, at least once per **shift day** when the melting, pouring, cooling, shakeout, sand handling, waste sand handling, and grinding/cleaning processes are in operation when venting to the atmosphere. When for any one reading, the pressure drop across any of the baghouses is outside the normal range of 1.0 and 8.0 inches of water or a range established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C - ~~Compliance Response Plan - Preparation, Implementation, Records, and Reports~~ **Response to Excursions or Exceedances**. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps in accordance with Section C - ~~Compliance Response Plan - Preparation, Implementation, Records, and Reports~~ **Response to Excursions or Exceedances**, shall be considered a deviation from this permit.

The instrument used for determining the pressure shall comply with Section C - Instrument Specifications, of this permit, shall be subject to approval by IDEM, OAQ, and shall be calibrated at least once every six (6) months.

D.4.1312 Record Keeping Requirements

- (b) To document compliance with Condition D.4.10, the Permittee shall maintain once per shift **day** records of the static pressure drop during normal operation when venting to the atmosphere.

Change No. 14:

Paragraph (a) of the Broken or Failed Baghouse and Cartridge Collector conditions has been deleted. For multi-compartment baghouses, the permit will not specify what actions the Permittee needs to take in response to a broken bag. However, a requirement has been added to the Conditions listed as Particulate Control in the Compliance Determination Section requiring the Permittee to notify IDEM if a broken bag is detected and the control device will not be repaired for more than ten (10) days. This notification allows IDEM to take any appropriate actions if the emission unit will continue to operate for a long period of time while the control device is not operating in optimum condition.

A new Paragraph has been added to the Broken or Failed Baghouse or Cartridge Collector condition for those processes that operate in batch mode. IDEM is aware there can be safety issues with shutting down a process in the middle of a batch. IDEM also realizes that in some situations, shutting down an emissions unit mid-process can cause equipment damage. Therefore, since it is not always possible to shut down a process with material remaining in the equipment, IDEM has revised the condition to state that in the case of baghouse failure, the feed to the process must be shut off immediately, and the process shall be shut down as soon as practicable

D.1.5 Particulate Control [326 IAC 2-7-6(6)]

- (a) In order to comply with conditions D.1.1 and D.1.2, the cartridge collector for particulate control shall be in operation and control emissions from the coremaking process at all times that the coremaking process is in operation.
- (b) **In the event that bag failure is observed in a multi-compartment baghouse, if operations will continue for ten (10) days or more after the failure is observed before the failed units will be repaired or replaced, the Permittee shall promptly notify the IDEM, OAQ of the expected date the failed units will be repaired or replaced. The notification shall also include the status of the applicable compliance monitoring parameters with respect to normal, and the results of any response actions taken up to the time of notification.**

D.1.98 Broken or Failed Baghouse and Cartridge Collector

~~In the event that cartridge collector or baghouse failure has been observed:~~

- ~~(a) For multi-compartment units, the affected compartments will be shut down immediately until the failed units have been repaired or replaced. Within eight (8) business hours of the determination of failure, response steps according to the timetable described in the Compliance Response Plan shall be initiated. For any failure with corresponding response steps and timetable not described in the Compliance Response Plan, response steps shall be devised within eight (8) business hours of discovery of the failure and shall include a timetable for completion. Failure to take response steps in accordance with Section C—Compliance Response Plan—Preparation, Implementation, Records, and Reports, shall be considered a violation of this permit. If operations continue after the bag failure is observed and it will be 10 days or more after the failure is observed before the failed units can be repaired or replaced, the Permittee shall promptly notify the IDEM, OAQ of the expected date the failed units will be repaired or replaced. The notification shall also include the status of the applicable compliance monitoring parameters with respect to normal, and the results of any response actions taken up to the time of notification.~~

- (a) For a single compartment cartridge collectors or baghouses **controlling emissions from a process operated continuously**, if failure is indicated by a significant drop in the cartridge collector's or baghouses pressure readings with abnormal visible emissions or the failure is indicated by an opacity violation, or if cartridge or baghouse failure is determined by other means, such as gas temperatures, flow rates, air infiltration, leaks, dust traces or triboflows, then a failed units and the associated process **will shall** be shut down immediately until the failed units have **has** been repaired or replaced. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).
- (b) For a single compartment cartridge collector or baghouse controlling emissions from a batch process, the feed to the process shall be shut down immediately until the failed unit has been repaired or replaced. The emissions unit shall be shut down no later than the completion of the processing of the material in the line. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).

Baghouse or cartridge collector failure can be indicated by a significant drop in the baghouse's or cartridge collector's pressure reading with abnormal visible emissions, by an opacity violation, or by other means such as gas temperature, flow rate, air infiltration, leaks, dust traces or triboflows

D.2.8 Particulate Control [326 IAC 2-7-6(6)]

- (a) In order to comply with conditions D.2.3 and D.2.4, the cartridge collectors for particulate control shall be in operation and control emissions from the melting, ladle heaters, inoculation, pouring, cooling, shakeout, conveying, shotblasting, grinding, and sand handling processes at all times that these facilities are in operation.
- (b) In the event that bag failure is observed in a multi-compartment baghouse, if operations will continue for ten (10) days or more after the failure is observed before the failed units will be repaired or replaced, the Permittee shall promptly notify the IDEM, OAQ of the expected date the failed units will be repaired or replaced. The notification shall also include the status of the applicable compliance monitoring parameters with respect to normal, and the results of any response actions taken up to the time of notification.

D.2.4211 Broken or Failed Baghouse and Cartridge Collector Detection

~~In the event that cartridge collector failure has been observed:~~

- ~~(a) For multi-compartment units, the affected compartments will be shut down immediately until the failed units have been repaired or replaced. Within eight (8) business hours of the determination of failure, response steps according to the timetable described in the Compliance Response Plan shall be initiated. For any failure with corresponding response steps and timetable not described in the Compliance Response Plan, response steps shall be devised within eight (8) business hours of discovery of the failure and shall include a timetable for completion. Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a violation of this permit. If operations continue after the bag failure is observed and it will be 10 days or more after the failure is observed before the failed units can be repaired or replaced, the Permittee shall promptly notify the IDEM, OAQ of the expected date the failed units will be repaired or replaced. The notification shall also include the status of the applicable compliance monitoring parameters with respect to normal, and the results of any response actions taken up to the time of notification.~~

- (b) ~~a~~ For a single compartment baghouses and or cartridge collector **controlling emissions from a process operated continuously**, if failure is indicated by a significant drop in the cartridge collector's or baghouses pressure readings with abnormal visible emissions or the failure is indicated by an opacity violation, or if cartridge or baghouse failure is determined by other means, such as gas temperatures, flow rates, air infiltration, leaks, dust traces or triboflows, then a failed units and the associated process ~~will~~ **shall** be shut down immediately until the failed units ~~have~~ **has** been repaired or replaced. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).
- (b) For a single compartment baghouse or cartridge collector **controlling emissions from a batch process**, the feed to the process shall be shut down immediately until the failed unit has been repaired or replaced. The emissions unit shall be shut down no later than the completion of the processing of the material in the line. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).

Baghouse or cartridge collector failure can be indicated by a significant drop in the baghouse's or cartridge collector's pressure reading with abnormal visible emissions, by an opacity violation, or by other means such as gas temperature, flow rate, air infiltration, leaks, dust traces or triboflows

D.3.7 Particulate Control [326 IAC 2-7-6(6)]

- (a) Pursuant to CP-139-8845-00011, issued on December 10, 1997, and in order to comply with conditions D.3.1 and D.3.2, the cartridge collectors and baghouses for particulate control shall be in operation and control emissions from the pouring, cooling, shakeout, conveying, shotblasting, and sand handling processes at all times that these facilities are in operation.
- (b) **In the event that bag failure is observed in a multi-compartment baghouse, if operations will continue for ten (10) days or more after the failure is observed before the failed units will be repaired or replaced, the Permittee shall promptly notify the IDEM, OAQ of the expected date the failed units will be repaired or replaced. The notification shall also include the status of the applicable compliance monitoring parameters with respect to normal, and the results of any response actions taken up to the time of notification.**

D.3.4110 Broken or Failed Baghouse and Cartridge Collector Detection

~~In the event that a baghouse or cartridge collector failure has been observed:~~

- ~~(a) For multi-compartment units, the affected compartments will be shut down immediately until the failed units have been repaired or replaced. Within eight (8) business hours of the determination of failure, response steps according to the timetable described in the Compliance Response Plan shall be initiated. For any failure with corresponding response steps and timetable not described in the Compliance Response Plan, response steps shall be devised within eight (8) business hours of discovery of the failure and shall include a timetable for completion. Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a deviation from this permit. If operations continue after the bag failure is observed and it will be 10 days or more after the failure is observed before the failed units can be repaired or replaced, the Permittee shall promptly notify the IDEM, OAQ of the expected date the failed units will be repaired or replaced. The notification shall also include the status of the applicable compliance monitoring parameters with respect to normal, and the results of any response actions taken up to the time of notification.~~

- (b a) For a single compartment **baghouse or cartridge collectors collector controlling emissions from a process operated continuously**, if failure is indicated by a significant drop in the cartridge collector's or baghouses pressure readings with abnormal visible emissions or the failure is indicated by an opacity violation, or if cartridge or baghouse failure is determined by other means, such as gas temperatures, flow rates, air infiltration, leaks, dust traces or triboflows, then a failed units and the associated process will **shall** be shut down immediately until the failed units have **has** been repaired or replaced. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).
- (b) For a single compartment **baghouse or cartridge collector controlling emissions from a batch process**, the feed to the process shall be shut down immediately until the failed unit has been repaired or replaced. The emissions unit shall be shut down no later than the completion of the processing of the material in the line. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).

Baghouse or cartridge collector failure can be indicated by a significant drop in the baghouse's or cartridge collector's pressure reading with abnormal visible emissions, by an opacity violation, or by other means such as gas temperature, flow rate, air infiltration, leaks, dust traces or triboflows

D.4.8 Particulate Control [326 IAC 2-7-6(6)]

- (a) Pursuant to CP-139-8845-00011, issued on December 10, 1997, and in order to comply with conditions D.4.2 and D.4.3, the baghouses and fabric filters for particulate and metallic HAP control shall be in operation and control emissions from the melting, pouring, cooling, shakeout, sand handling, waste sand handling, and grinding/cleaning processes at all times that these facilities are in operation.
- (b) In the event that bag failure is observed in a multi-compartment baghouse, if operations will continue for ten (10) days or more after the failure is observed before the failed units will be repaired or replaced, the Permittee shall promptly notify the IDEM, OAQ of the expected date the failed units will be repaired or replaced. The notification shall also include the status of the applicable compliance monitoring parameters with respect to normal, and the results of any response actions taken up to the time of notification.

D.4.1211 Broken or Failed Bag and Cartridge Collector Detection

In the event that bag failure has been observed:

- (a) For multi-compartment units, the affected compartments will be shut down immediately until the failed units have been repaired or replaced. Within eight (8) business hours of the determination of failure, response steps according to the timetable described in the Compliance Response Plan shall be initiated. For any failure with corresponding response steps and timetable not described in the Compliance Response Plan, response steps shall be devised within eight (8) business hours of discovery of the failure and shall include a timetable for completion. Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a deviation from this permit. If operations continue after the bag failure is observed and it will be 10 days or more after the failure is observed before the failed units can be repaired or replaced, the Permittee shall promptly notify the IDEM, OAQ of the expected date the failed units will be repaired or replaced. The notification shall also include the status of the applicable compliance monitoring parameters with

~~respect to normal, and the results of any response actions taken up to the time of notification.~~

- (b a) For a single compartment **baghouse or** cartridge collectors **controlling emissions from a process operated continuously**, if failure is indicated by a significant drop in the cartridge collector's or baghouses pressure readings with abnormal visible emissions or the failure is indicated by an opacity violation, or if cartridge or baghouse failure is determined by other means, such as gas temperatures, flow rates, air infiltration, leaks, dust traces or triboflows, then a failed units and the associated process ~~will~~ **shall** be shut down immediately until the failed units ~~have~~ **has** been repaired or replaced. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).
- (b) For a single compartment **baghouse or cartridge collector controlling emissions from a batch process, the feed to the process shall be shut down immediately until the failed unit has been repaired or replaced. The emissions unit shall be shut down no later than the completion of the processing of the material in the line. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).**

Baghouse or cartridge collector failure can be indicated by a significant drop in the baghouse's or cartridge collector's pressure reading with abnormal visible emissions, by an opacity violation, or by other means such as gas temperature, flow rate, air infiltration, leaks, dust traces or triboflows

Change No. 15:

The modified conditions D.1.8(a) , D.2.11(a), D.3.10(a), and D.4.11(a) are the same as Condition C.6 Operation of Equipment. Therefore, Condition C.6 Operation of Equipment has been deleted.

~~C.6 — Operation of Equipment [326 IAC 2-7-6(6)]~~

~~Except as otherwise provided by statute or rule, or in this permit, all air pollution control equipment listed in this permit and used to comply with an applicable requirement shall be operated at all times that the emission units vented to the control equipment is are in operation.~~

Change No. 16:

The 326 IAC 6-3 revisions that became effective on June 12, 2002 were approved into the State Implementation Plan on September 23, 2005. These rules replace the previous version of 326 IAC 6-3 (Process Operations) that had been part of the SIP; therefore, the requirements of the previous version of 326 IAC 6-3-2 are no longer applicable to this source. Condition C.1 has been revised to remove (a) which contained these requirements, and Condition D.5.3 which contained these requirements has been removed. Since the requirements of the 326 IAC 6-3-2(d) that were effective June 12, 2002 are now federally enforceable, the last statement from C.1 and D.5.5 has been removed.

C.1 Particulate Emission Limitations For Processes with Process Weight Rates Less Than One Hundred (100) pounds per hour ~~[40 CFR 52 Subpart P] [326 IAC 6-3-2]~~

- ~~(a) Pursuant to 40 CFR 52 Subpart P, particulate matter emissions from any process not already regulated by 326 IAC 6-1 or any New Source Performance Standard, and which has a maximum process weight rate less than 100 pounds per hour shall not exceed 0.551 pounds per hour.~~

- (b) Pursuant to 326 IAC 6-3-2(e)(2), particulate emissions from any process not exempt under 326 IAC 6-3-1(b) or (c) which has a maximum process weight rate less than 100 pounds per hour and the methods in 326 IAC 6-3-2(b) through (d) do not apply shall not exceed 0.551 pounds per hour. ~~This condition is not federally enforceable.~~

~~D.5.3 Particulate Matter (PM) [40 CFR 52 Subpart P]~~

~~Pursuant to 40 CFR 52 Subpart P, the PM from the one (1) paint booth, identified as CO5, shall not exceed the pound per hour emission rate established as E in the following formula:~~

~~Interpolation of the data for the process weight rate up to sixty thousand (60,000) pounds per hour shall be accomplished by use of the equation:~~

~~$$E = 4.10 P^{0.67}$$
 where E = rate of emission in pounds per hour; and
P = process weight rate in tons per hour~~

~~D.5.54 Particulate [326 IAC 6-3-2(d)]~~

~~Pursuant to 326 IAC 6-3-2(d), particulate from the one (1) paint booth, identified as # CO5, shall be controlled by a dry particulate filter, and the Permittee shall operate the control device in accordance with manufacturer's specifications. This requirement to operate the control is not federally enforceable.~~

Change No. 17:

The table of contents has been revised to reflect all changes made to the permit. Where conditions were deleted or added, subsequent conditions were appropriately renumbered.

Conclusion and Recommendation

The construction of this proposed modification shall be subject to the conditions of the attached proposed Part 70 Significant Permit Modification No. 139-21886-00011. The staff recommends to the Commissioner that this Part 70 Significant Permit Modification be approved.